

Columbia University  
Bulletin of Information



BARNARD COLLEGE

ANNOUNCEMENT

1956-1957

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ARCHIVES**

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MILBANK HALL

BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1956-1957

MORNINGSIDE HEIGHTS

NEW YORK 27, N. Y.

BARNARD COLLEGE

ARCHIVES

## COMMUNICATION WITH THE COLLEGE

Students and prospective students should read carefully the pertinent sections of this Announcement before writing or requesting applications as indicated below.

The post office address is Barnard College, Columbia University, New York 27, N. Y. The telephone number is University 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College: the General Secretary  
Admission to the freshman class or with advanced standing, information about scholarships for entering students and requests for catalogues: the Director of Admissions

Scholarships and loan funds for students in college: the General Secretary

Academic work of students: the Class Advisers

Payment of College bills: the Bursar

Requests for transcripts and notices of withdrawal: the Registrar

Health: the College Physician

Opportunities for self-help, recommendations for employment: the Placement Office

Gifts or bequests: the Director of the Barnard Fund

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

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**B**ARNARD is the undergraduate liberal arts college for women of Columbia University. Since its founding in 1889, it has aimed to offer young women an education of high standard. Through giving wide opportunities for serious study, it has opened to its students the delights of learning and the training prerequisite for the professions.

Because of Barnard's relationship to Columbia, our curriculum is extensive in its scope as well as demanding in its approach to study. Whatever its students desire to learn may be found in the opportunities offered by our faculty and by a great University; whatever fruits of learning they wish to taste — whether in the arts or in the business of the community — they may discover in New York City, of which Barnard is proud to be a part. In addition, they will find a well-rounded, mature program of college activities, part of which is shared with Columbia College.

Underlying our curriculum and our daily round of activity is the conviction that a college education is a high privilege; that those who have great opportunity have the responsibility to use it to the full. For learning alone is not enough; it must be used with wisdom to make living creative and effective. We welcome students who share this conviction; who wish to learn so that they may take their full part in our complex and exciting world.

*Millicent C. McIntosh*

# 1. Organization

## TRUSTEES OF BARNARD COLLEGE FOR 1956-1957

MRS. OGDEN REID, *Chairman*

FRANCIS T. P. PLIMPTON, *Vice-Chairman*

FREDERIC RHINELANDER KING, *Clerk*

MRS. FRANK ALTSCHUL

MRS. LEIGHTON COLEMAN

MRS. LEONARD W. CRONKHITE

FRANK DIEHL FACKENTHAL

ERNEST A. GROSS

MRS. ALFRED F. HESS

ANDERSON F. HEWITT

ROBERT L. HOGUET, JR.

ROBERT S. HUTCHINS

PRESIDENT GRAYSON KIRK, *ex officio*

MRS. RUSTIN MCINTOSH

MRS. GAVIN MAC BAIN

SAMUEL R. MILBANK

RICHARD RODGERS

CHARLES E. SALTZMAN

EARL B. SCHWULST

MRS. ARTHUR HAYS SULZBERGER

MRS. MAYNARD WHEELER

MISS DOROTHY R. FUNCK, *Alumnae Trustee*

MRS. WILLIAM T. GOSSETT, *Alumnae Trustee*

MRS. WALTER M. WEST, *Alumnae Trustee*

MRS. FREDERICK WOODBRIDGE, *Alumnae Trustee*

### *Faculty Representatives to Meet with Trustees*

MISS HELEN R. DOWNES

JULIUS S. HELD

## STANDING COMMITTEES OF THE TRUSTEES

### EXECUTIVE COMMITTEE

Mrs. Reid, *Chairman*, Mrs. Altschul, Mrs. Coleman, Mr. King, Mr. Milbank, Mr. Plimpton, Mr. Saltzman, Mrs. Sulzberger, Mrs. Woodbridge, and the President of the University and the President of the College, *ex officiis*

### COMMITTEE ON FINANCE

Mr. Milbank, *Chairman*, Mrs. Altschul, Mr. Hoguet, Mrs. MacBain, Mr. Saltzman, Mr. Schwulst, and the President and Treasurer of the College and the Chairman of the Board of Trustees, *ex officiis*

### COMMITTEE ON BUILDINGS AND GROUNDS

Mrs. Altschul, *Chairman*, Mr. Hutchins, Mr. King, Mrs. West, Mrs. Wheeler, Mrs. Woodbridge, and the President and Treasurer of the College and the Chairman of the Board of Trustees, *ex officiis*

### COMMITTEE ON EDUCATION

Mrs. Cronkhite, *Chairman*, Mr. Fackenthal, Mr. Hoguet, Mr. Rodgers, Mrs. Wheeler, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

### COMMITTEE ON NOMINATIONS

Mrs. Coleman, *Chairman*, Mrs. Hess, Mr. Hewitt, Mrs. Woodbridge, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

### COMMITTEE ON INVESTMENTS

Mr. Milbank, *Chairman*, Mr. Hoguet, Mr. Plimpton, Mr. Saltzman, Mr. Schwulst, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

### COMMITTEE ON DEVELOPMENT

Mrs. Sulzberger, *Chairman*, Mrs. Coleman, Mrs. Gossett, Mr. Gross, Mr. King, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## THE FACULTY

GRAYSON KIRK, 1952, President of the University

A.B., Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

MILlicent CAREY MC INTOSH, 1947, President of Barnard College and  
Dean in the University

A.B., Bryn Mawr; Ph.D., Johns Hopkins; LL.D.; Litt.D.; L.H.D.

THOMAS P. PEARDON, 1923, Dean of the Faculty and Professor of Gov-  
ernment

B.A., University of British Columbia; A.M., Clark; Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of  
French

A.B., Barnard; A.M., Ph.D., Columbia

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

BERNARD BARBER, 1952, Associate Professor of Sociology

A.B., A.M., Ph.D., Harvard

HENRY A. BOORSE, 1937, Professor of Physics

B.S., United States Naval Academy; A.M., Ph.D., Columbia

MARISTELLA DE PANIZZA BOVÉ, 1951, Associate Professor of Italian

Litt.D., University of Rome

S. PALMER BOVIE, 1952, Assistant Professor of English

A.B., Princeton; A.M., Ph.D., Columbia

JOSEPH GERARD BRENNAN, 1947, Associate Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

LE ROY BREUNIG, 1953, Associate Professor of French

A.B., DePauw; Ph.D., Cornell

SIDNEY A. BURRELL, 1947, Assistant Professor of History

A.B., Chicago; Ph.D., Columbia

MARIANNA BYRAM, 1926, Assistant Professor of Fine Arts

A.B., Barnard; A.M., Radcliffe

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The dates refer to the beginning of service in the college and not necessarily  
to the assumption of the current title.

## BARNARD COLLEGE

HORTENSE CALISHER, 1956, Adjunct Assistant Professor of English  
A.B., Barnard

ROSALIE COLIE, 1949, Assistant Professor of English  
A.B., Vassar; A.M., Ph.D., Columbia

WILLIAM A. CORPE, 1956, Assistant Professor of Botany  
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State

WILLIAM WALLACE CUMMING, 1955, Assistant Professor of Psychology  
A.B., A.M., Ph.D., Columbia

ELIZABETH CZONICZER, 1952, Assistant Professor of Italian  
A.B., Budapest; A.M., Chicago; Ph.D., Columbia

MARGARITA U. DA CAL, 1943, Assistant Professor of Spanish  
A.B., Instituto-Escuela de Madrid; A.M., Ph.D., Columbia

<sup>3</sup>JOHN DAY, 1931, Associate Professor of Greek and Latin  
A.B., Ohio State; Ph.D., Johns Hopkins

INGRITH J. DEYRUP, 1947, Associate Professor of Zoology  
A.B., Barnard; Ph.D., Columbia

HELEN R. DOWNES, 1932, Professor of Chemistry  
A.B., Barnard; A.M., Columbia; Ph.D., Cambridge

CLARA ELIOT, 1920, Assistant Professor of Economics  
A.B., Reed; Ph.D., Columbia

JOANNE ELLIOTT, 1955, Assistant Professor of Mathematics  
A.B., Pembroke; A.M., Ph.D., Cornell

<sup>2</sup>LELIA M. FINAN, 1919, Assistant Professor of Physical Education  
B.S., A.M., Columbia

EUGENIO FLORIT, 1945, Associate Professor of Spanish  
D. en D., Universidad de la Habana

MARION HAMILTON GILLIM, 1952, Associate Professor of Economics  
A.B., Mount Holyoke; A.M., Ph.D., Columbia

AUBREY GORBMAN, 1946, Professor of Zoology  
A.B., M.S., Wayne; Ph.D., Columbia

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<sup>2</sup>Absent on leave, Winter Session.

<sup>3</sup>Absent on leave, Spring Session.

## THE FACULTY

W. CABELL GREET, 1926, McIntosh Professor of English  
A.B., University of the South; A.M., Ph.D., Columbia

<sup>1</sup>VIRGINIA D. HARRINGTON, 1942, Associate Professor of History  
A.B., Barnard; A.M., Ph.D., Columbia

JULIUS S. HELD, 1937, Professor of Fine Arts  
Ph.D., University of Freiburg

GEORGE HIBBITT, 1956, Associate Professor of Speech  
A.B., Ohio State; A.M., Ph.D., Columbia

MARGARET HOLLAND, 1926, Associate Professor of Physical Education  
B.S., A.M., Columbia

<sup>1</sup>LUCYLE HOOK, 1949, Associate Professor of English  
A.B., B.S., Texas State College for Women; A.M., Columbia;  
Ph.D., New York

NORRIS HOUGHTON, 1954, Adjunct Professor of the Drama  
A.B., Princeton

TRACY S. KENDLER, 1954, Assistant Professor of Psychology  
A.B., Brooklyn; A.M., Ph.D., State University of Iowa

EDWARD J. KING, 1946, Associate Professor of Chemistry  
A.B., State University of Iowa; Ph.D., Yale

RENÉE J. KOHN, 1952, Assistant Professor of French  
Lic. ès Lettres, Grenoble; Agrégée de l'Université, Sorbonne

MIRRA KOMAROVSKY, 1934, Professor of Sociology  
A.B., Barnard; A.M., Ph.D., Columbia

JOHN KOUWENHOVEN, 1946, Professor of English  
A.B., Wesleyan; A.M., Ph.D., Columbia

<sup>1</sup>MARION LAWRENCE, 1929, Professor of Fine Arts  
A.B., Bryn Mawr; A.M., Ph.D., Radcliffe

ROBERT LEKACHMAN, 1947, Assistant Professor of Economics  
A.B., Ph.D., Columbia

EDGAR R. LORCH, 1937, Professor of Mathematics  
A.B., Ph.D., Columbia

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<sup>1</sup>Absent on leave, 1956-57.

## BARNARD COLLEGE

CAROLYN P. LOUGHBOROUGH, 1940, Associate Professor of Music  
A.B., Vassar; A.M., Columbia

OTTO LUENING, 1944, Professor of Music on the Joline Foundation  
Royal Academy of Music, Munich; University of Zurich

CATHARINE MCCLELLAN, 1956, Assistant Professor of Anthropology  
A.B., Bryn Mawr; Ph.D., California

LORNA F. MCGUIRE, 1935, Associate Professor of English  
A.B., Connecticut; A.M., Ph.D., Radcliffe

JANE G. MAHLER, 1935, Associate Professor of Fine Arts  
A.B., Wisconsin; A.M., Ph.D., Columbia

ANDRÉ MESNARD, 1936, Associate Professor of French  
A.B., A.M., Columbia

GLADYS MEYER, 1936, Assistant Professor of Sociology  
A.B., Wellesley; Ph.D., Columbia

DOUGLAS STUART MOORE, 1928, MacDowell Professor of Music  
A.B., Yale; Mus.D., Rochester

JOHN A. MOORE, 1943, Professor of Zoology  
A.B., A.M., Ph.D., Columbia

PHOEBE MORRISON, 1952, Associate Professor of Government  
A.B., Vassar; LL.B., George Washington; J.S.D., Yale

URSULA M. NIEBUHR, 1940, Associate Professor of Religion  
B.A., M.A., Oxford; S.T.M., Union Theological Seminary

KATHERINE ORGANSKI, 1956, Adjunct Assistant Professor of Sociology  
A.B., Wheaton; Ph.D., Columbia

ROSEMARY PIERREL, 1955, Assistant Professor of Psychology  
A.B., A.M., Boston; Ph.D., Brown

JEANNE VARNEY PLEASANTS, 1933, Associate Professor of French  
A.B., California; D. d'Univ., Paris

JEAN A. POTTER, 1952, Assistant Professor of Philosophy  
A.B., Bryn Mawr; A.M., Radcliffe; Ph.D., Yale

BASIL RAUCH, 1941, Professor of History  
A.B., Notre Dame; Ph.D., Columbia

## THE FACULTY

AMELIA A. DE DEL RIO, 1930, Professor of Spanish  
A.B., Vassar; A.M., Columbia

DONALD D. RITCHIE, 1948, Associate Professor of Botany  
A.B., B.S., Furman; A.M., Ph.D., North Carolina

DAVID A. ROBERTSON, JR., 1940, Professor of English  
A.B., A.M., Ph.D., Princeton

ELEANOR ROSENBERG, 1953, Associate Professor of English  
A.B., Barnard; A.M., Ph.D., Columbia

<sup>1</sup>RAYMOND J. SAULNIER, 1938, Professor of Economics  
B.S., Middlebury; A.M., Tufts; Ph.D., Columbia

HENRY S. SHARP, 1941, Professor of Geology  
A.B., Cornell; A.M., Ph.D., Columbia

LOUISE G. STABENAU, 1945, Assistant Professor of German  
Lyzeum und Oberlyzeum, Bremen; A.M., Columbia

EMMA DIETZ STECHER, 1945, Associate Professor of Chemistry  
A.B., Barnard; A.M., Columbia; Ph.D., Bryn Mawr

JOHN B. STEWART, 1950, Assistant Professor of Government  
B.A., M.A., Acadia; Ph.D., Columbia

MARION STRENG, 1930, Associate Professor of Physical Education  
B.S., Wisconsin; A.M., Columbia

H. STANDISH THAYER, 1954, Assistant Professor of Philosophy  
A.B., Bard; A.M., Ph.D., Columbia

<sup>2</sup>ELEANOR M. TILTON, 1950, Associate Professor of English  
A.B., Mount Holyoke; A.M., Boston; Ph.D., Columbia

HELEN G. TRAGER, 1955, Assistant Professor of Education  
B.S., A.M., New York

BARRY ULANOV, 1951, Assistant Professor of English  
A.B., Ph.D., Columbia

ROBERT J. WILLIAMS, 1954, Assistant Professor of Psychology  
A.B., A.M., Ph.D., Columbia

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<sup>1</sup>Absent on leave, 1956-57.

<sup>2</sup>Absent on leave, Winter Session.

## BARNARD COLLEGE

CHILTON WILLIAMSON, 1948, Associate Professor of History  
A.B., A.M., Ph.D., Columbia

ALICE S. WILSON, 1955, Visiting Assistant Professor of Classics  
A.B., Ladycliff-on-Hudson; A.M., Ph.D., Cornell

ISABELLE DE WYZEWA, 1929, Associate Professor of French  
A.B., Sorbonne; A.M., Smith; Ph.D., Columbia

<sup>3</sup>FERN W. YATES, 1927, Assistant Professor of Physical Education  
A.B., Barnard; A.M., Columbia

RICHARD PARDEE YOUTZ, 1940, Professor of Psychology  
A.B., Carleton; Ph.D., Yale

LEONARD ZOBLER, 1955, Assistant Professor of Geography  
B.S., M.S., State College of Washington; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller  
B.S., Southwest Missouri State Teachers; A.M., Ed.D., Columbia

MARGARET GIDDINGS, 1941, Registrar and Secretary to the Faculty  
A.B., Barnard

ESTHER GREENE, 1944, Librarian  
A.B., Grinnell; B.S., Simmons

MARJORY J. NELSON, 1948, College Physician  
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary  
A.B., Bryn Mawr

SARAH KATHERINE THOMSON, 1955, Reference Librarian  
A.B., Agnes Scott; M.S., Columbia

## FACULTY EMERITI

VIRGINIA C. GILDERSLEEVE, 1900-1947, Dean Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.

IDA H. OGILVIE, 1906-1941, Professor Emeritus of Geology  
Ph.D.

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<sup>3</sup>Absent on leave, Spring Session.

## THE FACULTY

WILLIAM T. BREWSTER, 1897-1943, Professor Emeritus of English  
A.M., Litt.D.

GERTRUDE M. HIRST, 1901-1943, Professor Emeritus of Greek and Latin  
Ph.D., M.A., (Cantab.)

MARIE REIMER, 1903-1945, Professor Emeritus of Chemistry  
Ph.D.

HARRY L. HOLLINGWORTH, 1907-1946, Professor Emeritus of Psychology  
Ph.D., LL.D.

MARGUERITE MESPOULET, 1934-1947, Professor Emeritus of French  
Agrégée de l'Université

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English  
Ph.D.

WILLIAM HALLER, 1909-1950, Professor Emeritus of English  
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of  
Zoology  
Ph.D.

HELEN H. PARKHURST, 1917-1952, Professor Emeritus of Philosophy  
Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of  
Economics  
Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German  
Ph.D.

FREDERIC G. HOFFHERR, 1936-1953, Professor Emeritus of French  
B. ès L.

## OTHER OFFICERS OF INSTRUCTION

ROSEMARY M. ARNOLD, 1952, Instructor in Economics  
A.B., Hunter

LUCENA J. BARTH, 1955, Lecturer in Zoology  
A.B., A.M., Missouri; Ph.D., Columbia

## BARNARD COLLEGE

ANNETTE KAR BAXTER, 1952, Lecturer in History  
A.B., Barnard; A.M., Smith; A.M., Radcliffe

BARBARA BEERS, 1956, Assistant in Zoology  
A.B., Mount Holyoke

MICHAEL H. BELSHAW, 1955, Lecturer in Economics  
A.B., Columbia

ROBERT L. BENSON, 1956, Instructor in History  
A.B., A.M., California; A.M., Ph.D., Princeton

ELIZABETH BLAKE, 1956, Instructor in French  
A.B., Barnard; A.M., Middlebury

SHERRY BLUMENTHAL, 1956, Assistant in Psychology  
A.B., Barnard

RICHARD E. BROTMAN, 1954, Lecturer in Sociology  
B.S., A.M., City College; Ph.D., New York

PATTON CAMPBELL, 1955, Associate in English  
A.B., M.F.A., Yale

HELEN M. CARLSON, 1942, Associate in French  
A.B., Grinnell; A.M., Columbia

ELIZABETH LOUISE CAUGHRAN, 1956, Instructor in English  
A.B., Russell Sage; A.M., Columbia

DONALD A. COOK, 1951, Instructor in Psychology  
A.B., A.M., Columbia

CATHERINE S. CRARY, 1955, Lecturer in History  
A.B., Mount Holyoke; A.M., Ph.D., Radcliffe

LAWRENCE J. CROCKETT, 1955, Lecturer in Botany  
A.B., A.M., Columbia

LOUISE ELLIOTT DALBY, 1956, Instructor in History  
B.S., A.M., Nebraska; Ph.D., Radcliffe

CLAIRE M. DELAGE, 1953, Lecturer in Physics  
A.B., Barnard; A.M., Columbia

BARBARA NOVAK DEUTSCH, 1956, Lecturer in Fine Arts  
A.B., Barnard; A.M., Radcliffe

## THE FACULTY

DOUGLAS G. DICKSON, 1952, Instructor in Mathematics  
A.B., Wesleyan; A.M., Harvard

LEE EHRMAN, 1956, Assistant in Zoology  
B.S., Queens

ARNETT A. ELLIOTT, 1954, Instructor in Government  
A.B., Baylor

MARIA TERESA ESCOBAL, 1946, Lecturer in Spanish  
Bachillerato, Colegio de la Enseñanza

PHYLLIS B. EVELETH, 1955, Assistant in Anthropology  
B.S., Tufts

ALBA-MARIE FAZIA, 1952, Instructor in French  
A.B., Barnard; A.M., Ph.D., Columbia

GERHARDT E. FISCHER, 1956, Instructor in Physics  
B.A., Toronto; Ph.D., California

RENÉE G. FORD, 1955, Assistant in Chemistry  
A.B., Mount Holyoke

MANET FOWLER, 1955, Lecturer in Anthropology  
B.S., New York; Ph.D., Cornell

RENÉE CLAIRE FOX, 1955, Lecturer in Sociology  
A.B., Smith; Ph.D., Radcliffe

LAURA R. DE GARCÍA-LORCA, 1948, Associate in Spanish  
Lic. en F., Universidad de Madrid

EDITH D. GENTRY, 1956, Instructor in Physical Education  
B.S., Winthrop; M.S., Louisiana State

ALEXANDER F. GODE, 1930, Lecturer in German  
A.M., Ph.D., Columbia

GEORGE GOUREVITCH, 1956, Assistant in Psychology  
B.S., A.M., Columbia

TATIANA GREENE, 1950, Instructor in French  
Université de Bruxelles; A.M., Columbia

MICHELE GUERARD, 1955, Assistant in Economics  
A.B., Bryn Mawr

## BARNARD COLLEGE

ILENE ELEANOR HAERING, 1955, Lecturer in Fine Arts  
A.B., Michigan

FRANCES LUCILLE HALL, Assistant in Chemistry  
B.S., A.M., Arkansas

HARRISON HOBLITZELLE, 1956, Lecturer in English  
A.B., Princeton; A.M., Columbia

ANTOINETTE NOEL HOFFHERR, 1950, Lecturer in French  
A.B., Sorbonne; A.B., Ohio Wesleyan; A.M., Ohio State

ADRIENNE HYTIER, 1956, Lecturer in History  
A.B., Barnard; A.M., Columbia

JUDITH JARVIS, 1956, Lecturer in Philosophy  
A.B., Barnard

JIMMYE ELIZABETH KIMMEY, 1956, Lecturer in Government  
A.B., Baylor; A.M., Columbia

JANE LANCASTER, 1954, Lecturer in Geology  
A.B., Barnard; A.M., Columbia

ELIZABETH LE BOURHIS, 1955, Assistant in Zoology  
A.B., Barnard

SALLY I. LIPSEY, 1953, Lecturer in Mathematics  
A.B., Hunter; A.M., Wisconsin

ELIZABETH MC CAUSLAND, 1955, Lecturer in Fine Arts  
A.B., A.M., Smith

LENORE F. MEADOWS, 1955, Instructor in Chemistry  
B.S., Brooklyn; M.S., Wisconsin

ALICE LEVINE MITCHELL, 1951, Instructor in Music  
A.B., Hunter; A.M., Smith

INEZ G. NELBACH, 1948, Associate in English  
A.B., Barnard; A.M., Columbia

RICHARD A. NORMAN, 1954, Lecturer in English  
A.B., George Washington; A.M., Columbia

## THE FACULTY

REMINGTON P. PATTERSON, 1955, Instructor in English  
A.B., A.M., Yale

WILLIAM E. PETTIT, 1956, Instructor in English  
B.S., Columbia

<sup>1</sup>GEORGE A. PLIMPTON, 1955, Associate in English  
A.B., Harvard; B.A., Cambridge

FRANK RINALDI, 1954, Assistant in Drama  
A.B., New York; A.M., Columbia

<sup>2</sup>RUTH A. ROOSA, 1949, Associate in History  
A.B., Pembroke; A.M., Radcliffe

GERTRUD M. SAKRAWA, 1952, Associate in German  
A.M., Columbia; Ph.D., University of Vienna

MARGARETTA SALINGER, 1956, Lecturer in Fine Arts  
A.B., Bryn Mawr

JEANETTE SCHLOTTMANN, 1951, Associate in Physical Education  
B.S., A.M., Texas State College for Women

WILLY SCHUMANN, 1955, Instructor in German  
A.B., A.M., Southern Methodist

HELEN SHERRILL, 1953, Lecturer in Human Relations  
A.B., Hollins; M.S.S.W., Louisville

AUDREY A. STERENFELD, 1955, Instructor in Chemistry  
A.B., Barnard

MARGARET L. STREHAN, 1955, Assistant in Psychology  
A.B., Bethany

ADOLPHUS J. SWEET, 1949, Associate in English  
A.B., A.M., Columbia

MOLLY O. TEASDALE, 1955, Studio Assistant in Fine Arts  
A.B., Wellesley; A.M., New York

HOWARD M. TEICHMANN, 1946, Associate in English  
A.B., Wisconsin

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<sup>1</sup>Absent on leave, 1956-57.

<sup>2</sup>Absent on leave, Winter Session.

## BARNARD COLLEGE

FRANÇOIS THOMAS, 1956, Visiting Lecturer in French  
Lic. ès Lettres, University of Grenoble

MILDRED DUNNOCK URMY, 1954, Associate in English  
A.B., Goucher; B.S., Columbia

JANICE F. WEEKS, 1956, Assistant in English  
A.B., Barnard

JANE WEISS, 1955, Assistant in Psychology  
A.B., Bryn Mawr

RUTH T. WILF, 1955, Assistant in Zoology  
A.B., Wellesley; A.M., Hunter

JOHN WILSON, 1956, Assistant in Religion  
A.B., Harvard

NATHALIE F. S. WOODBURY, 1952, Lecturer in Anthropology  
A.B., Barnard

## OFFICERS OF ADMINISTRATION

MILICENT CAREY MCINTOSH, Ph.D., LL.D., Litt.D., L.H.D.  
President of Barnard College and Dean in the University

THOMAS P. PEARDON, Ph.D.  
Dean of the Faculty and Professor of Government

HELEN PHELPS BAILEY, Ph.D.  
Dean of Studies and Associate Professor of French

JEAN T. PALMER, A.B. General Secretary

FORREST L. ABBOTT, Ed.D. Treasurer and Controller

### OFFICE OF THE PRESIDENT

HELEN LAW, A.B. Executive Secretary

### OFFICE OF THE DEANS

HELEN M. CARLSON, A.M.  
Adviser to the Class of 1957 and Associate in French

## THE FACULTY

**NATHALIE F. S. WOODBURY, A.B.**

Adviser to the Class of 1958 and Lecturer in Anthropology

**CLARA ELIOT, Ph.D.**

Adviser to the Class of 1959 and Assistant Professor of Economics

**MARIANNA BYRAM, A.M.**

Adviser to the Class of 1960 and Assistant Professor of Fine Arts

**DOROTHY E. FOX, A.B.**

Adviser to Foreign Students and Assistant to the Dean of the Faculty

### ADMISSIONS

**HELEN M. MCCANN, A.B.**

Director

**MARGARET DYKES DAYTON, A.M.**

Associate Director

### ASSOCIATE ALUMNAE

**MARY A. BLISS, A.B.**

Executive Secretary

### BARNARD FUND

**FLORENCE M. BRECHT, A.B.**

Director

### BURSAR

**EMILY LAMBERT, A.B.**

Bursar

**FRANCES A. BARRY, M.S.**

Assistant Bursar

### CHAPLAIN OF THE UNIVERSITY

**JOHN M. KRUMM, Ph.D., B.D.**

### COLLEGE ACTIVITIES

**CATHERINE R. GOODWIN, B.S.**

Director

### FOOD SERVICES

**MARY ALICE CURRIER, B.S.**

Director

# BARNARD COLLEGE

## HEALTH

MARJORY J. NELSON, M.D.

College Physician

A. LOUISE BRUSH, M.D.

Consulting Psychiatrist

CARL R. WISE, M.D.

University Medical Officer

## LIBRARY

ESTHER GREENE, A.B., B.S.

Librarian

THUSNELDA BRETTMAN

Assistant Librarian

SARAH KATHERINE THOMSON, A.B., M.S.

Reference Librarian

## MAINTENANCE AND OPERATIONS

JOHN KISSLING

Manager

## PLACEMENT

RUTH HOUGHTON, A.B.

Director

ETHEL S. PALEY, A.B.

Assistant Director

## PUBLIC RELATIONS

PHYLLIS D. MICHELFELDER, A.B.

Director

## REGISTRAR

MARGARET GIDDINGS, A.B.

Registrar and Secretary to the Faculty

KAY S. DU BOSE, A.B.

Assistant Registrar

## RESIDENCE

HARRIET BENSEN

Director

MARY STEWART, A.M.

Assistant Director

## STANDING COMMITTEES OF THE FACULTY

### Elected by the Faculty

#### ADVISORY COMMITTEE TO THE PRESIDENT

The President, *Chairman ex officio*, Miss Downes, Mr. Held, Miss Komarovsky, Mr. Kouwenhoven, Mr. Youtz, and Mr. Peardon, *ex officio*

#### COMMITTEE ON INSTRUCTION

Mr. Peardon, *Chairman*, Mr. Breunig, Miss Colie, Miss Deyrup, Mr. King, Mr. Lekachman, Miss Morrison, Mr. Robertson, Mrs. Stabenau, and *ex officiis*, the President, Mrs. Bailey, Miss Giddings

#### COMMITTEE ON PROGRAMS AND STANDING

Mrs. Bailey, *Chairman*, Miss Gillim, Mr. Moore, Miss Rosenberg, and *ex officiis*, Miss Byram, Miss Carlson, Miss Eliot, Miss Giddings, Miss McCann, Mr. Peardon, and Mrs. Woodbury

### Appointed by the Committee on Instruction

#### COMMITTEE ON ADMISSIONS

Miss McCann, *Chairman*, Miss Colie, Miss Pierrel, Mr. Zobler, and *ex officiis*, Mrs. Bailey, Mrs. Dayton, Miss Palmer

#### COMMITTEE ON THE FOREIGN LANGUAGE REQUIREMENT

Mr. Breunig, *Chairman*, Mrs. Bové, Mr. Day, Mr. Gorbman, Mr. Kouwenhoven, Mrs. del Rio, Mrs. Stabenau, and *ex officiis*, Mrs. Bailey, Mr. Peardon

#### COMMITTEE ON HONORS

Mrs. Bailey, *Chairman*, Mr. Lorch, Mr. Mesnard, Miss Potter, Mr. Williamson, and Mr. Peardon, *ex officio*

#### COMMITTEE ON THE LIBRARY

Mr. Peardon, *Chairman*, Miss McGuire, Mr. Moore, Mr. Rauch, and Miss Greene, *ex officio*

#### COMMITTEE ON SCHOLARSHIPS

Miss Palmer, *Chairman*, Mr. Bovie, Mr. Ritchie, Mr. Stewart, and *ex officiis*, Mrs. Bailey, Miss Bensen, Miss Goodwin, Miss McCann, the Class Advisers

## BARNARD COLLEGE

### COMMITTEE ON SPACE AND HOURS

Mr. Peardon, *Chairman*, Mr. Carrié, Miss Eliot, Mr. Greet, Mr. Youtz,  
and *ex officiis*, Mr. Abbott, Mrs. Bailey, Miss Fox, Miss Giddings

### COMMITTEE ON STUDENT ACTIVITIES

The President, *Chairman*, *ex officio*, Miss Eliot, Miss Nelbach, Miss  
Schlottmann, and *ex officiis*, Mrs. Bailey, Miss Goodwin, Mrs.  
Michelfelder, Miss Palmer, the Class Advisers

### BARNARD REPRESENTATIVES ON THE UNIVERSITY COUNCIL

The President, *ex officio*, Mr. Boorse (serving until June 1957), and  
Mr. Robertson (serving until June 1959)

## II. An Introduction to the College

Barnard College, located on a four-acre campus on Morningside Heights adjoining the Columbia University campus, offers its 1300 students the advantages of a cosmopolitan university community, while preserving its identity as a woman's undergraduate college. Though a part of the University, Barnard retains its own internal administration, and the College is governed by its own trustees, president and faculty.

The Barnard graduate receives her degree of Bachelor of Arts from Columbia University, as does the graduate of Columbia College, the men's undergraduate division of the University. Many of the facilities of the University are open to the Barnard student, such as the use of Columbia's great libraries and the opportunity to study with scholars from other faculties of the University.

### BARNARD'S BEGINNING

Many colleges begin with something tangible: a gift of buildings, a tract of land or an endowment. Barnard College began with nothing except the idea of equal education for women.

The man who did most to make this idea become a reality was President Frederick A. P. Barnard of Columbia. As early as 1879, President Barnard had started a vigorous campaign for the admission of women to Columbia College, but his trustees had doubted "whether the female brain could stand the strain of a rigorous college course." However, after years of work and the assistance of women of New York who became a "persistent set of agitators," a resolution was finally passed by the Columbia Board of Trustees on April 1, 1889, establishing a separate college for women.

That fall classes were begun in a rented brownstone house at 343 Madison Avenue, with seven Columbia instructors and a student body composed of fourteen regular students and twenty-two special students. The new college promised an education equal to that offered to the men at Columbia. This meant that Barnard girls took the same entrance examinations as the Columbia students, an important circumstance in establishing Barnard's high academic standards.

By 1898 Barnard had moved to its present site on Morningside Heights, three buildings had been constructed, and the College had

## BARNARD COLLEGE

grown to 500 students. In 1900 it was formally incorporated into the educational system of Columbia University.

Since 1900 additional land and buildings have been acquired by Barnard until now the College occupies the entire area between 116th and 120th Streets, bounded by Broadway and Claremont Avenue, one block east of Riverside Park and the Hudson River. Currently the College owns equipment, buildings and grounds with a book value of \$5,500,000 and holds endowment funds providing a net income of \$397,000.

## BARNARD COLLEGE TODAY

Barnard College today provides a curriculum of undergraduate study in the liberal arts which is designed to give the student both a knowledge of the past, and the trained mind and sound ideals which will best enable her to take her place in the modern world.

The basic aim of the program is to develop a free mind: the ability to use the tools of learning, to weigh facts responsibly, and to bring knowledge creatively to bear on new situations. The curriculum prepares the student for the requirements of graduate and professional schools, and a large number of Barnard girls (thirty-five per cent in 1955) go on to advanced work. Whether the Barnard girl goes on to professional school or career, or devotes herself to home and community, her training in the liberal arts is designed to insure that she will lead a rich, useful, and interesting life.

The curriculum is designed to provide the student with a broad foundation for understanding the world in which she lives, as well as to enable her to discover her own intellectual aptitudes and interests. To accomplish this the student is required to take a wide distribution of courses in the various fields of human knowledge. Through two years' work in the humanities she makes direct acquaintance with literature, and either philosophy, religion, music or the fine arts. A year's work in history and one in some phase of contemporary society, such as anthropology, economics, government, psychology, or sociology is also required, as well as training in the methods of the physical and biological sciences. She must demonstrate before graduation a reading ability in at least one foreign language, and the ability to speak and write English with clarity and understanding.

In addition to fulfilling these requirements, a student, by concentrating in a major field of study in her last two years, will gain a thorough

## *AN INTRODUCTION TO THE COLLEGE*

knowledge of one subject through advanced courses, seminars, independent study and research. Students have a wide range in choosing their major subject, with twenty-two departments of study in the humanities, the social sciences, and the physical and biological sciences. There are also interdepartmental majors such as American Civilization and Foreign Areas Studies, and special programs in Education and Drama designed to be taken in conjunction with a major in another subject.

Barnard's classes are instructed by a full and part-time faculty and teaching staff of 161. The faculty includes scholars who are devoting their lives to teaching and research both at Barnard and in the graduate faculties of Columbia University. Others come to Barnard from the world of the theater, the arts, and business, bringing with them special experience and first-hand knowledge of the problems that future graduates will encounter.

A number of undergraduate classes are held with Columbia College, and the music, religion, physics, mathematics and classics departments are joint Barnard-Columbia departments. Courses in the Graduate Faculties of Political Science, Philosophy and Pure Science are also open to qualified seniors.

The resources of New York City—its museums, its cultural activities, its opportunities for field work in such areas as economics, government, sociology, sciences—provide unlimited opportunities for study and research. The Morningside Heights community in itself, with its university faculties, its schools and churches, its varied racial and social groups, presents a bridge between learning and living.

### **THE CAMPUS**

Barnard's campus is a compact area of buildings and landscaped grounds lying just west of the Columbia campus. It is surrounded by such other institutions as Riverside Church, the Union Theological Seminary, the Juilliard School of Music, International House, Jewish Theological Seminary, St. Luke's Hospital, and the Cathedral of St. John the Divine.

Milbank Hall contains offices, classrooms, laboratories and a greenhouse, as well as the new model Minor Latham Drama Workshop. In Barnard Hall are the Ella Weed Library, literature seminar rooms, the art studio, gymnasium, swimming pool and dance studio, the Student Annex, and a student social center known as the James Room.

## BARNARD COLLEGE

Between Milbank and Barnard Halls are the tennis courts, lawns, and the "Jungle," an area of trees and flowering shrubs.

Brooks and Hewitt Halls, the two residence halls, are located south of Barnard Hall, on two sides of a grassy court. These dormitories, plus Johnson Hall on the Columbia campus, house one-third of the undergraduates. The students who live in the residence halls are from nearly every state and 30 foreign countries.

The combination of day students and residents gives a special character to Barnard life. The students live in unusually close contact with the great city beyond the gates, while special facilities are provided in the James Room and the Student Annex so that the non-resident student may participate fully in the extra-curricular activities on campus. The dining room in the residence halls is available to non-resident students and to faculty for meals during the noon hour.

### STUDENT LIFE

Barnard has a varied program of extra-curricular activities, and wide responsibilities in the college community are given to the students. All student activities and organizations at the College are under the general supervision of the Undergraduate Association. Every student is a member of the Association and is eligible on payment of the student activities fee to take part in all undergraduate and class functions, to use all the privileges of the Athletic Association, and to receive the semi-weekly undergraduate newspaper, the literary magazine and yearbook.

The Honor Board, whose chairman is a member of the Student Council of the Undergraduate Association, administers the Honor Code, under which all students agree to maintain a high standard of honor in examinations and in all other phases of college life.

There are numerous clubs and organizations on the campus, including language clubs, the dramatic society, Political Council, the International Relations Club, Chess Club, and others. A committee of students from Columbia College and Barnard plan the social program of the two colleges jointly, and there is close liaison between such extra-curricular activities as the dramatic groups of both colleges, the Gilbert and Sullivan Society, the Columbia radio station, WKCR, the Columbia Glee Club, the Orchestra and Chamber Music Society.

In addition to these student activities, the Undergraduate Association aids in college planning through participation on such faculty and ad-

## *AN INTRODUCTION TO THE COLLEGE*

ministration committees as the Development Council and the Assemblies Committee. An undergraduate Curriculum Committee consults with the corresponding faculty committee, and from time to time makes recommendations.

### **RELIGIOUS LIFE**

Religious services are conducted daily in St. Paul's Chapel on the Columbia campus. Students are invited also to participate in the services at local churches and synagogues. An active extra-curricular program is directed by counsellors representing the various faiths, and is implemented through religious clubs. These clubs have their quarters in Earl Hall on the Columbia campus and are open to both Columbia College and Barnard students. At the Thursday Noon Meeting, sponsored every week on the Barnard campus by a joint faculty-student committee, faculty members as well as outside speakers discuss contemporary religious and philosophical issues.

### **HEALTH AND RECREATION**

On the campus there are tennis courts, golf cages, and an archery range in addition to the gymnasium, swimming pool, and dance studio. The Barnard College Camp occupies a 20-acre plot of wooded land near Ossining, New York, an hour's journey north of the city, and furnishes an ideal opportunity for outdoor recreation.

Barnard has on its staff a full-time physician, who is in charge of all matters affecting the health of students, a part-time psychiatrist, and two nurses. Medical examinations are required for freshmen, sophomores, and seniors. Resident students and non-resident students not living with family or relatives are required to participate in the Columbia University Student Medical Plan (see page 148).

### **THE PLACEMENT OFFICE**

The Placement Office, which is maintained by the College for the benefit of students and alumnae, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

## BARNARD COLLEGE

The office keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to business, government and other professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical, laboratory, editorial, and sales work. It is not advisable for a student to undertake employment during her freshmen year, since it is difficult for her to estimate at first the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time jobs amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$150.

Summer jobs may be obtained through the Placement Office. Approximately sixty-five per cent of the Barnard students work during the summer and their earnings average about \$350.

### III. Admission

The Committee on Admissions selects for Barnard those candidates who show evidence of intellectual ability, sound character, and good health. Along with the past record of academic achievement, promise of good citizenship is important. In addition, the College believes it desirable that the college experience be shared by students representing a wide variety of schools, many parts of the United States, and many foreign countries.

Candidates wishing to talk over their plans may arrange with the Office of Admissions for an interview at the College in the fall of their senior year at secondary school or during their junior year, except during the period from April 1 to June 1. Whenever possible, the Office of Admissions will be glad to arrange interviews with alumnae for those students who are unable to visit the College.

#### ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before February 15 of the year of entrance. It is more desirable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions. A non-refundable fee of \$10 must accompany each application.

Students are admitted to the freshman class in September of each academic year. They should be at least fifteen years of age. They must present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
- 2) Evidence of sound health, which should be submitted, as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board Tests.

Specifically, a candidate for admission should be a graduate of an approved secondary school or should have equivalent education repre-

## BARNARD COLLEGE

senting a four-year course of study. Academic requirements for admission are based on the requirements for the A.B., or liberal arts degree. The secondary school course of study should include, therefore, four years of work in English, three years in one foreign language and two in another, a year in algebra and a year in geometry. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics, and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics, and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board scholastic aptitude test in January or March of her senior year in school and three scholastic achievement tests in March of her senior year. The latter must be taken in (1) English composition, (2) a foreign language, and (3) social studies, science, or mathematics. January graduates may take the College Board tests in December of their senior year. The required aptitude and achievement tests should be taken only once in the senior year. If the scholastic aptitude test is taken for guidance purposes in the junior year, the scores should be reported to the College.

### THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1956-57:

Saturday, December 1, 1956	Saturday, March 16, 1957
Saturday, January 12, 1957 <sup>1</sup>	Saturday, May 18, 1957
Saturday, February 16, 1957 <sup>1</sup>	Wednesday, August 14, 1957

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the scholastic aptitude and achievement tests, directions for the filing of applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii,

---

<sup>1</sup> The aptitude test only is administered on these dates.

## ADMISSION

Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, P. O. Box 27896, Los Angeles 27, California.

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Alaska, Hawaii, the Canal Zone, Canada, Mexico, and the West Indies is seven weeks before the date of the examination; for all other candidates the closing date is three weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than one week before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic aptitude test alone.....	\$ 6.00
One, two, or three achievement tests.....	8.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports of their tests from the Board.

## ADMISSION TO ADVANCED STANDING

Candidates are admitted to advanced standing in September and February. They should have satisfactorily completed at least one year of work at an acceptable college or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from an institution of equal standing, will receive at Barnard a year's credit for a year's work at the institution from which she enters.

The student should submit with her formal application the following credentials: her secondary school record and a recommendation from her principal; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of any College Entrance Examination Board tests she has taken. A candidate for admission from a junior college may be asked to take the College Entrance Examination Board scholastic aptitude test if she has not already done so. No definite credit for her junior college work can be assigned until she has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good char-

## BARNARD COLLEGE

acter from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before July 1 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15, 1956; otherwise, the student must postpone registration until Monday, October 1, 1956, thereby incurring an additional fee of \$15 for lateness.

### ADMISSION AS SPECIAL STUDENTS

Mature students who may wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency, and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.



ALMA MATER—COLUMBIA UNIVERSITY



BARNARD HALL



PRESIDENT MC INTOSH WITH STUDENTS FROM FRANCE, TIBET AND TURKEY

MUSIC MAJORS USE RECORD COLLECTION IN ELLA WEED LIBRARY





THE ARDEN COURTS, SEEN FROM MILBANK HALL

A SCENE FROM GREEK GAMES, ANNUAL FRESHMAN-SOPHOMORE COMPETITION





HEWITT HALL, ONE OF THE RESIDENCE HALLS

BROOKS HALL LIVING ROOM





A BARNARD ANTHROPOLOGY MAJOR



A BARNARD-COLUMBIA ADVANCED MATHEMATICS CLASS

BARNARD FACULTY MEMBERS DIRECT PHYSICS EXPERIMENT





ST. PAUL'S CHAPEL ON COLUMBIA CAMPUS

BARNARD SENIORS MARCH IN COLUMBIA COMMENCEMENT PROCESSION



## IV. Degree Requirements

### ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points (a point is considered to be the equivalent of fifty minutes of class work a week and two hours of preparation) and include the following:

- I. English: The introductory course, English A1-A2, Reading, Writing and Speaking (6 points).
- II. Hygiene, unless exemption is granted on the basis of a test, (2 points).
- III. Foreign languages and literature: (1) Proof of the ability to read a foreign language with ease. This requirement can be fulfilled in two ways, either by an examination (given in December, May and September), or by satisfactory completion of an approved course in literature (marked § in the course descriptions). Six points must be taken and a minimum passing grade of C— obtained. The requirement should be fulfilled before the beginning of the senior year. If not, the senior program must include provision for fulfilling it and be approved by the Committee on Programs and Standing. Four additional trials of the examination are permitted within the six-year time limit after all other requirements have been met (see Credit, page 31). (2) One year's study of a second foreign language, unless the student has had the equivalent (two years) in secondary school (6 to 8 points).
- IV. Humanities: (1) Six points of work in literature, normally a full-year course, studied in the language in which it was originally written. (2) A second full-year course, or a combination of two one-semester courses, chosen from the following: fine arts, literature (which may be in translation), music, philosophy or religion. An advanced literature course taken in place of the foreign language examination may also be counted toward the humanities requirement (10 to 12 points).
- V. Social Sciences: (1) History: one full-year course, normally History 1-2, or 3-4. (2) Contemporary Society: one full-year's work in another social science to be chosen from the following:

## BARNARD COLLEGE

Anthropology 8, R 18; Economics 1-2 (both terms), 32; Geography 3, 4; 12 and 15; Government 1, 2 (both terms), 7, 8 (both terms), and 9; Psychology 37; Religion 25; Sociology 1-2 (both terms). Except where both terms are indicated, any combination of these courses may be made (6 points).

- VI. Natural Sciences: Two full-year courses, one of which must include laboratory work (8-10 points). The sciences are divided into two areas: (1) biological—botany, experimental psychology, zoology, and (2) physical—chemistry, physical geography, geology, physics. Both areas must be represented, unless mathematics (6 points) is elected to fulfill the non-laboratory science requirement.
- VII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work and, if noted in the departmental statement, a major examination at the end of the senior year. A major may be chosen in any one field, or in such combinations as are indicated. Transfer students are required to take a minimum of 12 points in their major at Barnard.
- VIII. Electives: To be chosen with reference to the interests and objectives of the student (41 to 43 points).
- IX. Physical Education (required for three years).

These requirements can be summarized numerically as follows:

Group requirements .....	48 to 52 points
Major requirement .....	28 points
Electives .....	44 to 40 points
Physical education .....	three years

Students' programs are planned in cooperation with the Class and Major Advisers and are filed in accordance with the general regulations of the College (see page 164).

## MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies in accordance with the subject matter and the department's conception of the best method of mastering it. In some, a comprehensive examination must be taken; in others, a senior thesis must be written or a senior seminar successfully completed. Specific departmental requirements

## DEGREE REQUIREMENTS

are listed in the appropriate statements, beginning on page 33. At the end of the sophomore year each student chooses her major adviser, with whom she plans all subsequent work in her area of concentration.

### CREDIT

All requirements must be completed within six years from the student's matriculation as a freshman at Barnard or elsewhere; within four-and-a-half years from matriculation as a sophomore; three years from matriculation as a junior; and a year and a half from matriculation as a senior.

Fifteen of the points elected during the senior year must be taken at Barnard.

In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. (See Grading System, page 167).

### REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the required work to be completed at Barnard. The student in conference with the Class and Major Advisers determines her program of work, taking into account her previous academic record and her future plans. The following restrictions should be observed:

All transfer students are required to take the English proficiency test during the registration period. Any student who has had an introductory course comparable to English A1-A2 is allowed to fulfill the English requirement by offering this course from another college, provided she passes the proficiency test. Others are assigned either to English A1-A2 or to other English courses suited to their needs.

Thirty of the points to be counted toward the degree must be taken at Barnard, as well as a minimum of 12 points in the major field. Only if the student's overall average in her previous college is 2.00 (C), can work of D grade done elsewhere count toward the Barnard degree.

Students who wish to complete work for the degree in a minimum of one year (30 points) are required to maintain an average standing of 2.50 (halfway between B and C).

Qualified transfer students are eligible to apply for admission to the professional schools of the University on completion of required preliminary work at Barnard.

## V. Courses of Instruction

Descriptions of the courses offered by Barnard will be found in the following pages. Fuller information can be obtained from the executive officer of the departments at registration periods and during the academic year. The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Winter session courses are marked by odd numbers, spring session courses by even numbers, year courses by consecutive odd and even numbers. An odd number which is preceded by the prefix "R" indicates a course repeated in the spring session that is ordinarily given in the winter session. An even number preceded by "R" indicates a course repeated in the winter session that is ordinarily given in the spring session.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the Committee on Programs and Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if all prerequisites have been met, and the written permission of the instructor obtained.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. **[0]**). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, except Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete listing of courses by examination groups is given on page 177.

The courses which are given at Columbia University and listed here as open to Barnard students are marked with a star (★). They may not be taken on an audit basis.

Foreign languages which are not taught at Barnard and are available at Columbia may be taken by qualified students with the approval of the Class Advisers and the University authorities.

Courses prefixed by the letters G.S. are given in the School of General Studies of Columbia University.

# INTERDEPARTMENTAL MAJORS

## I. AREAS STUDIES

Officer in charge for 1956-57, PROFESSOR PEARDON

### A. Foreign Areas Studies

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable a student to concentrate on the civilization of some one area or country of the world.

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications are approved by the committee in charge. A freshman anticipating such a major should consult her adviser.

A student who wishes to major in Foreign Areas Studies must satisfy the foreign language requirement (page 29) before becoming a major. In her freshman and sophomore years she should also take at least 12 points in the social sciences.

After being accepted as a major, the student will be expected to specialize in the study of one country or region. For this purpose she will continue her work in language and will take such courses in the literature, fine arts, geography, history, and institutions of her chosen area as may be determined in consultation with her adviser. Wherever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in many other languages are available to Barnard students at Columbia University.<sup>1</sup>

Areas of concentration:

1. England. See special program in British Civilization, page 35.
2. Western Europe, with special reference to some one country, Professors Bové, Breunig, Carrié, Stabenau and others.
3. Russia, Mrs. Roosa.
4. Far East, Professor Mahler.
5. Latin America, Professor Florit.

Major examination: Students majoring in Foreign Areas Studies are required to pass a major examination, the exact nature of which varies with the individual field.

### B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government, or history. With her major in her chosen subject, she should combine courses in

<sup>1</sup> Scholarships are available to Barnard students for work in Hebrew in the School of General Studies on application to Dean Hacker.

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other subjects which deal with international themes. A mimeographed list of such courses, from which selection can be made in consultation with the adviser, is available.

In addition to the courses given at Barnard College, other courses in international relations and related fields are available at Columbia University.

## II. AMERICAN CIVILIZATION

This program is supervised by the Committee on American Civilization:

**BASIL RAUCH**, Professor of History, Chairman

**JOHN A. KOUWENHOVEN**, Professor of English

**BERNARD BARBER**, Associate Professor of Sociology

The purpose of the program is to develop understanding of American Civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar. As a public service the lecture series in the latter course is made available to the Barnard College student body and community.

A major in American Civilization. Students who wish to major in American Civilization should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualifications for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 3-4, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Civilization 1, 2, and in the senior year the two advanced courses and American Civilization 3, 4.

### Required Courses:

History 3-4, Introduction to the History of American Civilization.

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the Chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A senior research essay to be prepared in the senior seminar is required in lieu of the major examination.

## INTERDEPARTMENTAL MAJORS

### 1, 2. Junior Readings. 6 points.

[0]

Students will read selected classics in American Civilization and also important books dealing with subjects which they do not study in basic courses. Brief written reports for discussion in the meetings. The reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the Spring Session a summer reading assignment will be made for completion before entering the senior seminar.

Required of all junior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. **Mrs. BAXTER.** Bi-weekly meetings of two hours. Hours to be arranged. **331 Milbank.**

### 3, 4. Senior Seminar. 8 points.

[0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar. The public lecture series in American Civilization is a part of this course, and its members will attend a conference with each lecturer.

Required of all senior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. **PROFESSOR RAUCH.** **W 4-6** and frequent conferences. **329 Milbank.**

## III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

**SIDNEY A. BURRELL**, Assistant Professor of History, Chairman

**DAVID A. ROBERTSON, JR.**, Professor of English

**CHILTON WILLIAMSON**, Associate Professor of History

Open to students who wish to devote particular attention to all aspects of British Civilization in the home islands and in the Empire-Commonwealth as well as to the interrelations of both with European civilization as a whole.

A major in British Civilization. A student who wishes to major in British Civilization must obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1-2. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities to be selected in

## BARNARD COLLEGE

consultation with the Chairman, as follows:

One basic course in the social sciences.

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of May or she may write a senior thesis, the length and standards of which will be set by the Committee.

[3, 4. **Senior Seminar.** 8 points. PROFESSOR PEARDON and associates.

Not given in 1956-57.]

## IV. OTHER INTERDEPARTMENTAL OFFERINGS

**An interdepartmental program in the foundations of education and child study.**  
See page 53 for details.

**A major in natural resources** offered jointly by the Departments of Botany and Geology-Geography. Required courses are Botany 1-2 and 7, Geography 10 and 12, Geology 1, 2 and 28, and a Senior Seminar in Natural Resources. All majors must take a course in field ecology and conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Barnard requirements must be fulfilled by courses which correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

**A major in economics and government.** Students majoring in economics and government will be required to take:

Economics 1-2; 27 or 28, and at least two additional courses in economics. Government 1, 2, and at least two additional courses in government.

Other social sciences: See departmental statements.

**A major in government and history.** Students majoring in government and history will be required to take:

Government 1, 2, and at least two additional courses in government. History 1-2, 3-4, and at least one additional course in history.

Other social sciences: See departmental statements.

**A major in government and sociology.** Students majoring in government and sociology will be required to take:

Government 1, 2; 27, 28, and one other course. Sociology 1-2 and at least 12 additional points in sociology.

Other social sciences: See departmental statements.

## INTERDEPARTMENTAL COURSES

**A major in economics and sociology.** Students majoring in economics and sociology will be required to take:

Economics 1-2; 27 or 28, and at least two additional courses in economics. Sociology 1-2 and courses amounting to 12 more points in sociology and preferably one additional course in economics or in sociology. Only one introductory course may count toward the major.

Other social sciences: See departmental statements.

### V. INTERDEPARTMENTAL COURSES

**Foundations of Language Learning.** (Spring Session.) 2 points. [6]

In this course the languages of the Western world (principally French, Spanish, Italian, and German) are submitted to a comparative study with constant reference to English. The aim, never lost sight of, is the characterization of the Western languages (1) through their common dependence on the Greco-Latin linguistic tradition and (2) in their mutual differences and deviations from a shared norm. The scope of the course involves grammatical problems, a study of Latin and Greek roots as well as general historical and cultural data. Its function is (a) to prepare beginners for subsequent work in specific languages and (b) to fill in background knowledge for those already familiar with one or more of the languages discussed. DR. GODE. T Th 9. 39 Milbank.

See also Anthropology 9-10.

**★Latin-American Seminar 31-32.** 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Prerequisite: junior standing. PROFESSOR DE MORELOS, with the assistance of PROFESSORS MORSE and HARRIS. W 3-5. 313 Hamilton.

**[Italian 27, 28. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries.** 6 points. PROFESSOR BOVÉ and DR. ULANOV.

Not given in 1956-57.]

# ANTHROPOLOGY

ASSISTANT PROFESSOR: CATHARINE McCLELLAN (Executive Officer)

LECTURERS: MANET FOWLER, NATHALIE F. S. WOODBURY

ASSISTANT: PHYLLIS B. EVELETH

As preparation for the major in anthropology, the department recommends as much background work as possible in the subjects required for the liberal arts degree. A student should try to complete before the junior year the requirements in history and science, particularly the introductory courses in geology, geography, and zoology.

A student majoring in anthropology is required to take: Anthropology 1, 2; 19, 20; 51, 52, and other courses depending upon individual interests, including some Columbia courses numbered 100 through 199 which she may elect in the junior and senior year with the consent of the Barnard department. A reading knowledge of German and/or Spanish is urgently recommended.

In addition to the general requirements, the following combinations of courses are suggested:

For students interested primarily in the biological aspects of anthropology: Course 18, zoology, genetics (either in botany or zoology), geography, and the courses in physical anthropology at Columbia.

For students interested primarily in the social sciences: Courses 3, 4; 8; 17; 18; 19, 20; 51, 52, economics, geography, government, history, philosophy, psychology, religion, sociology, and the appropriate Columbia courses.

For students interested primarily in archaeology: Course 1, ancient history, classical civilization and archaeology, geography, geology, and Columbia courses in the Departments of Anthropology and Fine Arts and Archaeology.

For students interested primarily in the humanities: Course 9-10, fine arts, language and literature, philosophy, and courses in primitive art and music at Columbia.

The major examination is in two parts (three hours each), and is designed to test ability to coordinate the work done in the major field. Course examinations in anthropology are waived the last semester.

## 1, 2. Introduction to Anthropology. 6 points.

[1]

The physical evolution and characteristics of man. The nature of man's society and culture examined in terms of Old and New World prehistoric developments and through analysis of selected non-literate and literate societies and their ways of life. Open to all classes. PROFESSOR McCLELLAN and MRS. EVELETH. Lec. M W 9. 204 Milbank. Museum Lecture (2 hours) M 1-3 or 2-4 at American Museum of Natural History.

## ANTHROPOLOGY

**[3, 4. Introduction to Cultural Anthropology of the Old and New Worlds.** 6 points.

Not given in 1956-57.]

**8. Societies around the World.** 3 points.

[9]

An introduction to the study of society with comprehensive treatment of three non-literate groups living under varied geographical and technological conditions; includes consideration of problems of social change resulting from contacts with machine-age culture. Open to all students; designed particularly for freshmen and sophomores; may be counted toward the requirement in contemporary society. **MRS. WOODBURY.** T Th 2:10-3:25. 37 Milbank.

**[9-10. The Study of Language.** 6 points.

Not given in 1956-57.]

**[17. Religion in Primitive Society.** 3 points.

PROFESSOR McCLELLAN.

Not given in 1956-57.]

**R18. Race in Society and Science.** 3 points.

[9]

The meanings of race, prejudice, and discrimination—as personal, social, and scientific problems in contemporary society; utilizing the orientations of cultural and applied anthropology, with related disciplines. Open to all except freshmen; may be counted toward the requirement in contemporary society. **DR. FOWLER.** T Th 2:10-3:25. 37 Milbank.

**19, 20. History and Theory of Anthropology.** 6 points.

[10]

The historical development and present status of the principal concepts in the various subfields of anthropology. Paper and/or class report for third point. Open to juniors and seniors; required of majors. **PROFESSOR McCLELLAN.** M W 3. 321 Milbank.

**51, 52. Seminar in Anthropology.** 6 points.

[0]

The specific subject for discussion will be determined by the interests of the students.

Required of all majors. Ordinarily open only to juniors and seniors in anthropology, and requiring the written permission of the instructor. May be taken two years in succession. **PROFESSOR McCLELLAN.** T 4-6. 13 Milbank.

# BOTANY

**ASSOCIATE PROFESSOR: DONALD D. RITCHIE (Executive Officer)**

**ASSISTANT PROFESSOR: WILLIAM A. CORPE**

**LECTURER: LAWRENCE J. CROCKETT**

**ASSISTANT: PETER NIELSEN**

General objectives of a major in botany are: (1) to learn the classification of the major groups of plants, their structure, function, and relations to each other, to man, and to their environment; (2) to gain some insight into such unsolved problems as those concerning growth, energy relationships, and reproduction, and to have experience in the methods used in the attack on the problems.

All students majoring in botany take Course 1-2, and additional courses to make a total of 28 points. As a preliminary to graduate work, Courses 5-6, 151 and 161 are desirable, but for an introduction to the plant world, designed for personal satisfaction, or for preparation for immediate employment, other combinations are available, and are determined by the plans and desires of the student.

**Related subjects:** All botany majors are expected to take a year of chemistry. A student planning to become a professional botanist should also have as much physics, chemistry, zoology, and mathematics as her schedule permits. A reading knowledge of French or German or both will be necessary for graduate study. A botany student is also urged to study philosophy, history, and politics.

Major students are permitted to use space in the greenhouse for practical work in plant propagation.

**Honors work:** Majors are encouraged to undertake special projects, usually in the form of restricted research problems. These are not honors courses in the usual sense, but do require original investigation of biological problems, and may be rewarded by publication or special commendation.

A major examination is given which consists of a two-hour written test, with sampling questions taken from the whole field of botany, and a one-hour oral session in which each candidate is examined by the staff.

A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 36.

## 1-2. General Botany. 8 points.

[6]

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants. Patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials correlated with laboratory studies. Emphasis upon the importance of plants to man. **PROFESSOR RITCHIE and staff.** **Lec. T Th 9 and W 3.** **Lab. (2 hours)** **T 10-12; 2-4 or Th 2-4.** **335 Milbank.**

## BOTANY

### 1a-2a. General Botany. 6 points.

[6]

Lectures identical with those of 1-2. No laboratory work. To follow or parallel: a laboratory science. PROFESSOR RITCHIE and staff. T Th 9 and W 3. 335 Milbank.

### ★G.S. Botany 3-4. Plant Geography. 6 points.

Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: ★G.S. Botany 1-2 or Course 1-2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6-6:50. 414 Pupin. Field work: Hours to be arranged.

### 5, 6. Cytology. 10 points.

[2]

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc. Prerequisite: at least a year of college work in either botany or zoology. PROFESSOR RITCHIE. Lec. M F 10. Lab. (4 hours) W 10-12, plus 4 hours to be arranged. 324 Milbank.

### 7. Plant Resources. 3 points.

[5]

The origin, distribution and utilization of plants of primary economic importance. Plants considered include those utilized as sources of food and beverages, woods and fibers, rubber, medicines, oils, waxes, and gums. Emphasis throughout given to the relation between the use of these plants and the conservation of basic natural resources. This course does not satisfy the requirements of a laboratory science. MR. CROCKETT. Lec. M F 2. Demonstrations, conferences and trips. W 2-4. 312 Milbank.

### 8. Structure and Relationships of Flowering Plants. 4 points.

[5]

Prerequisite: Course 1-2 or the equivalent. Frequent field trips. MR. CROCKETT. Lec. M F 2. Lab. M W 3-5. 312 Milbank.

### 9-10. Elementary Microbiology. 8 points.

[5]

Introduction to study of bacteriological methods, representative types of micro-organisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2. Lab. (4 hours) M W 3-5. 324 Milbank.

### 151. Intermediate Microbiology. 4 points.

[9]

Survey of structure, distribution, and activities of microorganisms in soil, water, and foods. Some attention to industrial processes, antibiosis, causation of disease, and immunological reactions. Prerequisites: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. Open to juniors and

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seniors. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3-5. 324 Milbank.

**152. Advanced Microbiology.** 4 points.

[9]

Advanced cytological techniques, the growth curve, and variation in microorganisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts. Prerequisite: Course 151 or equivalent. Written permission of the instructor is required. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3-5. 324 Milbank.

**159. Microbial Physiology.** 5 points.

General physiology of microorganisms. Written permission of the instructor is required. ----- Hours to be arranged. 324 Milbank.

**161, 162. Special Problems in Microbiology, Morphology, and Physiology.** 2 to 8 points. [0]

Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

# CHEMISTRY

PROFESSOR: HELEN R. DOWNES (Executive Officer)

ASSOCIATE PROFESSORS: EDWARD J. KING, EMMA D. STECHER

INSTRUCTORS: LENORE F. MEADOWS, AUDREY A. STERENFELD

ASSISTANTS: RENÉE G. FORD, FRANCES HALL

A major in chemistry is designed: (1) to make clear the orderly nature of the universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide for those students who wish it the necessary pre-professional training for careers in teaching, in medicine or in chemical research.

A student majoring in chemistry must fulfill the following requirements:

Chemistry courses: General Elementary Chemistry 1-2; Qualitative Analysis 23; Quantitative Analysis 24; Organic Chemistry 41-42 and Conferences in Chemistry 99; Physical Chemistry 105, 106, and Physical Chemistry Laboratory 107 are strongly advised.

Allied subjects: General physics should be taken as early as possible. Trigonometry and analytic geometry must be completed before taking quantitative analysis. A reading knowledge of German must be acquired before taking the second semester of organic chemistry. Majors are also strongly advised to take a year of calculus and to acquire a reading knowledge of French.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take Courses 105, 106 and 107 in addition to at least 4 points of advanced lectures and 2 points of advanced laboratory.

The major examination is given in two parts: The general factual material is covered in a three-hour Graduate Record examination, given in April of the senior year. Near the end of the senior year there is a four-hour examination of the essay type, designed to test the student's ability to assemble facts and co-ordinate material in some of the broader fields of chemical knowledge.

## 1-2. General Elementary Chemistry. 8 points.

[19]

Lectures on inorganic chemistry with emphasis on chemical principles and theories. A brief introduction to organic chemistry. This course is not divisible under any circumstances. PROFESSORS DOWNES and KING, MRS. STERENFELD and assistants.

For students with no previous chemistry: Lec. T Th 9, Th 11 and a recitation hour F 1 or 2 or M 1. Lab. (2½ hours) M T W or Th 2-4:30. 423 Milbank.

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For students with high school chemistry: Lec. T Th 10 and a recitation hour F 1 or 2 or M 1. Lab. (2½ hours) M T W or Th 2-4:30. 423 Milbank.

## 1a-2a. General Elementary Chemistry. 6 points.

[19]

Lectures and recitations identical with those of 1-2. No laboratory work. Prerequisite: preceding or parallel, a laboratory science. PROFESSORS DOWNES and KING and MRS. STERENFELD. Lec. T Th 9 or 10 and a recitation hour M 1 or F 1 or 2. 423 Milbank.

## 23. Qualitative Analysis. 6 points.

[19]

Lectures on ionic equilibria. Laboratory work on a semi-micro scale. Prerequisite: Course 1-2, Mathematics 1 and preceding or parallel, Mathematics 30. Laboratory deposit, \$10. Miss MEADOWS and Mrs. STERENFELD. Lec. M W F 12. Lab. (minimum 6 hours) T Th 2-5 and, if warranted by the registration, T Th 9-12. 423 Milbank.

## 24. Quantitative Analysis. 6 points.

[19]

An introduction to basic quantitative techniques. Prerequisite: Course 23. Laboratory deposit, \$15. Miss MEADOWS and Mrs. STERENFELD. Lec. M W 12. Lab. (minimum 8 hours) T Th 2-6 and, if warranted by the registration, M W 2-6. 423 Milbank.

## 26. Quantitative Analysis, Special Course. 6 points.

[19]

For students who have not taken Course 23. Prerequisite: Course 1-2. Laboratory deposit, \$15. Miss MEADOWS and Mrs. STERENFELD. Lec. M W F 12. Lab. (minimum 6 hours) T Th 2-5. 423 Milbank.

## 41. Organic Chemistry. Lectures (41a, 4 points). Laboratory (41b, 2 points). [1]

Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for most medical schools. Prerequisite: Course 1-2. Laboratory deposit, \$15. PROFESSOR STECHER and Mrs. FORD. Lec. M W F 9 and M 3. Lab. (minimum 6 hours) T Th 9-12 or 2-5. 423 Milbank.

## 42. Organic Chemistry. Lectures (42a, 4 points). Laboratory (42b, 2 points). [1]

Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis. Prerequisite: Courses 1-2, 41 and, except with special permission, 23, 24. Laboratory deposit, \$15. PROFESSOR STECHER and Mrs. FORD. Lec. M W F 9 and M 3. Lab. (minimum 6 hours) T Th 9-12 or 2-5. 423 Milbank.

## 64. Advanced Analytical Chemistry. 3 points.

[0]

Lectures and laboratory work on quantitative analysis with instruments. Open to students who have completed the major requirements. Laboratory deposit, \$15. PROFESSOR KING. Lec. M 1. Lab. M 2-5, W 2-4.

## CHEMISTRY

**99. Conferences in Chemistry.** 2 points. [0]

Readings and discussion of selected topics. Required of majors in their senior year. PROFESSORS DOWNES and KING. W 3-5. 423 Milbank.

**105, 106. Physical Chemistry.** 6 points. [3]

Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Except by special permission, chemistry majors must elect Course 107 parallel to 105. Prerequisite: Courses 1-2; Physics 3-4 and Mathematics 1 and 30. PROFESSOR KING. Lec. M W F 11. 423 Milbank.

**107. Physical Chemistry Laboratory.** 3 points. [0]

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Courses 23, 24; Physics 3-4; Mathematics 1 and 30. Laboratory deposit, \$15. PROFESSOR KING. Lab. (minimum 6 hours). T Th 2-5. 423 Milbank.

**108. Advanced Physical Chemistry Laboratory.** 3 points. [0]

Projects suggested by recently published work. Lectures on instrumental methods. Prerequisite: Courses 107; 106 (parallel). Laboratory deposit, \$15. PROFESSOR KING. Lec. T 2. Lab. (minimum 5 hours) T 3-5, Th 2-5. 423 Milbank.

**137, 138. Problems in Chemistry.** 4, 6, or 8 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$15 each session. PROFESSORS KING and STECHER. Hours and credit by arrangement.

**145. Organic Chemistry, Advanced Course.** 3 points. [4]

Modern theories of the mechanisms of organic reactions and the chemistry of some natural products, for students who have completed the major requirements except Course 99. PROFESSOR STECHER. Lec. M W F 1. 423 Milbank.

**150. Physiological Chemistry.** 3 points. [2]

The chemistry of the living cell, the raw materials of cell metabolism and intermediary metabolism. Prerequisite: Courses 23, 24; 41-42 and Zoology 1-2. PROFESSOR DOWNES. Lec. M W F 10. 423 Milbank.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of the courses will be found in the An-

## BARNARD COLLEGE

nouncement of the Faculty of Pure Science. The following courses are suggested:

★156. Quantitative Organic Analysis. 6 points.

★177. Methods of Chemical Analysis for Vitamins and Other Food Constituents. 6 points.

CLASSICAL CIVILIZATION (See GREEK AND LATIN)

## DRAMA

The Minor Latham Drama Workshop is the center of activities for Barnard students interested in the theater. In addition to the work of the Drama Workshop itself, students take part in the college dramatic club, *Wigs and Cues*, the *Gilbert and Sullivan Society*, the French, German, Italian, and Spanish Clubs, the several dance groups, the *Barnard Bulletin*'s dramatic column, the campus radio station, and the Brander Matthews Theater of the University. There are opportunities to study productions on and off Broadway. As might be expected, the life of the college is colored by New York's interest in the dramatic arts.

The students major in various departments, bringing to the Drama Workshop their special abilities. Among the courses concerned with the theater are these, described in detail in the departmental announcements:

## ENGLISH

**Drama Workshop 1-2.** 6 or 8 points. PROFESSOR HOUGHTON, MRS. URMY, MESSRS. SWEET and CAMPBELL.

**13, 14. Dramatic Writing.** 4 or 6 points. MR. TEICHMANN.

**21-22. Voice and Diction.** 6 points. MR. NORMAN and -----.

**R21. Voice and Diction.** 3 points. MISS NELBACH.

**23, 24. Oral Interpretation of Literature.** 6 points. PROFESSOR HIBBITT and MISS NELBACH.

**27, 28. Public Speaking.** 6 points. MR. NORMAN.

**63. Shakespeare and the Elizabethan Mind.** 3 points. PROFESSOR ROBERTSON.

**69. Development of English Drama from Its Beginnings to 1642.** 3 points. MR. PATTERSON.

**70. English Drama from the Restoration to the End of the Nineteenth Century.** 3 points. -----.

**86. Drama from Ibsen to the Present.** 3 points. PROFESSOR ULANOV.

**★F. A. Acting 105-106. Theater Reading.** 4 points. MISS KELLER.

**★F. A. Play Directing 105-106. Rehearsal.** 6 points. MR. SCHNITZER.

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### FINE ARTS

**70.** European and American Architecture from the Eighteenth Century into the Twentieth Century. 3 points. PROFESSOR BYRAM.

### FRENCH

**17, 18.** French Phonetics. 6 points. PROFESSOR PLEASANTS.

**23.** The French Classical Theater. 3 or 4 points. PROFESSOR BREUNIG.

**30.** French Theater in the Twentieth Century. 2 or 3 points. PROFESSOR BREUNIG.

### GERMAN

**5, 6.** Lessing, Goethe, and Schiller. 6 points. PROFESSOR STABENAU.

**[25, 26.** The Drama of the Nineteenth Century. 4 or 6 points. PROFESSOR STABENAU.

Not given in 1956-57.]

### GREEK AND LATIN

**Greek 21.** Greek Tragedy. 3 points. ——.

### ITALIAN

**20.** Italian Drama. 2 or 3 points. PROFESSOR BOVÉ.

### MUSIC

**16.** The Opera. 3 points. PROFESSOR LOUGHBOROUGH.

**39-40.** Composition. 4 points. PROFESSOR LUENING.

**★131-132.** Advanced Composition. 4 points. PROFESSOR BEESON.

### PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in Modern Dance and Fencing are particularly useful.

### SPANISH

**[17-18.** The Spanish Drama of the Golden Age. 6 points. PROFESSOR DEL RÍO.

Not given in 1956-57.]

# ECONOMICS

PROFESSOR: <sup>1</sup>RAYMOND J. SAULNIER

ASSOCIATE PROFESSOR: MARION HAMILTON GILLIM (Executive Officer)

ASSISTANT PROFESSORS: CLARA ELIOT, ROBERT LEKACHMAN

INSTRUCTOR: ROSEMARY M. ARNOLD

LECTURER: MICHAEL H. BELSHAW

ASSISTANT: MICHELE GUERARD

A major in economics is planned to give the student an understanding of economic life and the preparation for a critical evaluation of economic conditions. According to her interests, a student may arrange her program to emphasize descriptive economics or economic analysis. The courses offered treat the history of economic institutions and thought as well as current economic affairs, both domestic and international. Students are encouraged to take advantage of the unique opportunities for field trips in the metropolitan area.

A student majoring in economics will be required to take Courses 1-2, 27 or 28, and 51, 52. Courses 5-6 or 7-8, and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology. See also Interdepartmental Offerings, page 36.

A senior essay will be required of each major in connection with the seminar. There will be no major examination. Seniors will take course examinations.

## 1-2. Introductory Economics. 6 points.

[18]

A study of the institutions and forces affecting the stability and growth of income and employment. Winter Session: Business and labor organization, national income and its determination, and economic theory. Economic fluctuations, monetary economics. Spring Session: Government finance, international economic relations, and the problems of underdeveloped countries. PROFESSORS GILLIM and LEKACHMAN, MRS. ARNOLD and MR. BELSHAW.

Section I M W F 10. 309 Milbank. (Not open to freshmen)

Section II M W F 2. 319 Milbank. (Open to freshmen)

Section III T Th 9:10-10:25. 215 Milbank. (Not open to freshmen)

Section IV M W F 9. 335 Milbank. (Open only to freshmen and sophomores)

<sup>1</sup> Absent on leave, 1956-57.

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## 3. Economic Problems of the Consumer. 2 or 3 points. [6]

The consumer end of marketing—advertising, brands, grade labels. Governmental protection of consumers. Consumer organizations, especially co-operatives. Standards and levels of living. Problems of medical care and housing. Project or paper for third point. Open to all except freshmen. PROFESSOR ELIOT. T Th 9. 319 Milbank.

## 4. Personal Finance. 2 or 3 points. [6]

Budgeting and record-keeping for the individual or family. Installment buying and other credit problems. Insurance, annuities and Social Security. Investing for security and income. Effects of inflation and taxation. Project or paper for third point. Open to all except freshmen. PROFESSOR ELIOT. T Th 9. 319 Milbank.

## [5–6. General Economic History. 6 points. MRS. ARNOLD.]

Not given in 1956-57.]

## 7–8. American Economic History. 6 points. [4]

The American economy beginning with the colonial period in the light of current theories of economic growth. Open to all except freshmen. MRS. ARNOLD. M W F 1. 311 Milbank.

## [9. Money and Banking. 3 points.]

Not given in 1956-57.]

## 15. Government Finance and Fiscal Policy. 3 points. [3]

Government taxing, spending, and borrowing; their effects on employment, prices, and income; fiscal relations among federal, state, and local governments; and the federal budget. Prerequisite: Course 1–2 or the equivalent. PROFESSOR GILLIM. M W F 11. 13 Milbank.

## 17, 18. Introductory Statistics. 6 points. [1]

Winter Session: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Session: Index numbers; time series; non-linear correlation; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. PROFESSOR GILLIM. M W 9 and two hours of laboratory work M 3–5 or T 3–5. 323 Milbank.

## 19, 20. Labor Relations and Personnel Management. 6 points. [2]

Winter Session: Labor-management policies and problems in relation to the changing economic, political, and legal environment. Spring Session: Field projects and case-studies in analyzing current issues in collective bargaining and personnel administration. Open to all except freshmen. MRS. ARNOLD. Winter

## ECONOMICS

Session: M W F 10. Spring Session: M W 10, and additional hours for field work to be arranged. 209 Milbank.

In-Service Training Program: A limited number of opportunities for on-the-job training are offered in connection with this course. Additional points will be credited for such work under Course 61, 62. Students wishing to participate must plan their program with the instructor before registration.

**24. International Economics.** 3 points. [3]

International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or the equivalent. PROFESSOR GILLIM. M W F 11. 13 Milbank.

**27. Development of Economic Thought.** 3 points. [9]

Economic thought from Adam Smith to Alfred Marshall, with some attention to the dissenting views of Marx and Veblen. Original sources. Short paper. Prerequisite: Course 1-2. PROFESSOR LEKACHMAN. T 2, Th 2-4. 321 Milbank.

**28. Economic Analysis.** 3 points. [7]

Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. PROFESSOR LEKACHMAN. T Th 10:35-11:50. 203 Milbank.

**29. Economic Fluctuations.** 3 points. [4]

Lectures and discussions center upon three topics: how to measure business cycles, how to explain them, and how to control them by appropriate public policies. Prerequisite: Course 1-2. MR. BELSHAW. M W F 1. 29 Milbank.

**32. Comparative Economic Systems.** 3 points. [9]

A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism. Open to juniors, seniors and to sophomores by special permission. MR. BELSHAW. T 2, Th 2-4. 321 Milbank.

**51, 52. Economics Seminar.** 6 points. [0]

The senior essay. Reading, reports and discussion. Required for senior majors. PROFESSOR LEKACHMAN. W 3-5. 409 Barnard.

**61, 62. Studies in Economics.** 2 or 4 points. [0]

Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper

## BARNARD COLLEGE

or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

### 63, 64. Statistical Projects. 2 to 6 points.

[0]

Individual research projects in economics or social studies. Experience in gathering and analyzing data, possible field work, or supervised work with off-campus research organizations. Frequent individual conferences. Prerequisite: Course 17 and permission of the instructor. PROFESSOR ELIOT. Hours to be arranged.

### [123, 124. Financial Institutions. 6 points. PROFESSOR SAULNIER.

Not given in 1956-57.]

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcements of the Faculty of Political Science and the Graduate School of Business. Students should consult their major adviser in making course selections.

# EDUCATION

DEAN HELEN P. BAILEY, Chairman of Interdepartmental Committee on Education

ASSISTANT PROFESSOR: HELEN G. TRAGER

The following interdepartmental program has been designed for students interested in teaching. The courses it includes do not constitute a major, but may be taken in conjunction with a major in any other subject.

Student teaching at the Dalton Schools and in Public School 75, Manhattan, is available to qualified seniors.

Students attracted to the field of teaching should discuss their plans and questions concerning the Barnard program with Dean Bailey before the end of the sophomore year. Questions concerning requirements for certification should be referred to Miss Houghton, Director of the Placement Office, or to Professor Trager.

## **Introduction to Teaching 1-2. Methods and Principles of Teaching in the Elementary School. 6 points. [10]**

From time to time the class will be divided into smaller units for purposes of group conferences. Students should be available during one additional hour each week for such group conferences as may be necessary. Open only to qualified seniors. Must be taken parallel to Course 1a-2a. Prerequisites: Psychology 16 and 27. PROFESSOR TRAGER. M W 3:10-4:25. 311 Milbank.

## **Introduction to Teaching 1a-2a. Supervised Student Teaching in the Elementary School. 6 points. [0]**

This course affords 240 clock hours of observation and student teaching at the Dalton Schools and in Public School 75. Additional observation at other schools will be scheduled. Open only to qualified seniors. Must be taken parallel to Course 1-2. Prerequisites: Psychology 16 and 27. PROFESSOR TRAGER. T Th 8:30-12:30.

Introduction to Teaching 1-2 and 1a-2a are designed to be taken concurrently as an introduction to both the theory and the practice of teaching in the contemporary elementary school. The methods and principles studied in class at the college are applied and tested in student teaching. The problems that are encountered during observation and student teaching furnish case studies for class discussion, demonstration and lectures. Application forms for admission to these two courses may be obtained in the office of the Dean of Studies during the month of March.

## **English 21-22. Voice and Diction. 6 points. [0]**

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech and a pleasing voice. Registration limited to 15 students. Written permission of the instructor required. Miss

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CAUGHRAN and MR. NORMAN. Section I M W F 11. 410 Barnard. Section II M W F 2. 410 Barnard. Section III T Th 10:35-11:50. 410 Barnard.

**English R21. Voice and Diction.** 3 points. [0]

Same as Course 21, but given in Spring Session. MISS NELBACH. Section I M W F 2. 410 Barnard. Section II T Th 9:10-10:25. 410 Barnard.

**[History 43. The History of Education in the United States.]** 3 points. PROFESSOR HARRINGTON.

Not given in 1956-57.]

**Philosophy 84. The Philosophy of Education.** 3 points. [5]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Ortega y Gasset, Locke, Rousseau, Newman and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 2. 37 Milbank.

**Psychology 16. Educational Psychology of Learning.** 3 points. [4]

An introduction to the psychology of learning designed for students interested in education. Learning principles, punishment, complex learning, appraisal of learning, and learning theories. Prerequisite: Psychology 1 or the equivalent. Open to all except freshmen. DR. CUMMING. M W F 1. 215 Milbank.

**Psychology 27. Psychology of Childhood.** 4 points. [2]

Human behavior in infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in nursery school for one hour each week. Prerequisite: Psychology 1 or the equivalent. PROFESSOR KENDLER. M W 10. Each student will also attend one discussion session, T 11; W 3; W 4; or Th 11. Conferences in connection with reports for the fourth point. 335 Milbank.

**Psychology 28. Psychology of Adolescence and Maturity.** 3 or 4 points. [2]

The mental, social, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation and delinquency. Prerequisite: Psychology 27. PROFESSOR KENDLER. M W F 10, and conferences in connection with a project or paper for the fourth point. 335 Milbank.

**Recreational Leadership 1 (or R1).** 2 points. [10]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games.

Participation in extracurricular activities related to recreation and social work is especially recommended for practice and experience. PROFESSOR HOLLAND. M W 4 and a third hour for field work. 410 Barnard.

# ENGLISH

PROFESSORS: W. CABELL GREET, JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR. (Chairman of the Department)

ADJUNCT PROFESSOR: NORRIS HOUGHTON

ASSOCIATE PROFESSORS: <sup>1</sup>LUCYLE HOOK, LORNA F. MCGUIRE, ELEANOR ROSENBERG (Director of English A), <sup>2</sup>ELEANOR M. TILTON

ASSISTANT PROFESSORS: S. PALMER BOVIE, ROSALIE COLIE, BARRY ULANOV (Secretary and Examinations Officer)

ADJUNCT ASSISTANT PROFESSOR: HORTENSE CALISHER

ASSOCIATES: PATTON CAMPBELL, INEZ G. NELBACH, <sup>1</sup>GEORGE A. PLIMPTON, ADOLPHUS J. SWEET, HOWARD M. TEICHMANN, MILDRED DUNNOCK URMY

INSTRUCTORS: ELIZABETH CAUGHRAN, REMINGTON P. PATTERSON, WILLIAM E. PETTIT

LECTURERS: HARRISON HOBLITZELLE, RICHARD A. NORMAN

ASSISTANTS: FRANK RINALDI, JANICE F. WEEKS

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSORS: JAMES L. CLIFFORD, LEWIS LEARY, MILTON SMITH, JANE D. ZIMMERMAN

ASSOCIATE PROFESSOR: GEORGE W. HIBBITT

ASSOCIATE: GERTRUDE IMOGENE KELLER

LECTURERS: GRETCHEN BURKHALTER, ROBERT C. SCHNITZER

A major in English: If you plan to major in English, you should aim at these objectives: to have in mind the main outlines of literary history, to gain some knowledge of the development of the English language, to increase your ability to read with understanding the principal writers in English, to extend your familiarity with a chosen portion of the department's work (literature, drama, writing, speech), and to improve your writing.

You should plan to take the departmental examination in the data of literary history by the beginning of your junior year. This examination is given three times a year (October, January, and May). For independent preparation, C. G. Osgood's *Voice of England* and G. M. Trevelyan's *English Social History* are recommended. Only students who have passed this examination will be admitted to the major examination at the end of senior year.

The major examination is in three parts. You will not be required to take Part I (one and a half hours), an examination in the history of the language, if you have received a grade of C or better in a half-year course numbered from 50 to 59. Parts II and III (three hours each) require critical comment on passages of prose and verse, and composition of essays on literary topics. Candidates will be expected to have read a good deal of Chaucer, Shakespeare, Milton, and

<sup>1</sup> Absent on leave, 1956-57.

<sup>2</sup> Absent on leave, Spring Session.

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some major writers, English and American, of the eighteenth, nineteenth, and twentieth centuries.

You should arrange, in consultation with your major adviser, a program including (a) three half-year courses numbered from 50 to 69; (b) three half-year courses numbered from 70 to 89; (c) Course 91, 92, in both junior and senior years; (d) Course 93 (or R93) in the junior year; (e) four half-year courses in the special field of your choice (literature, drama, writing, speech). If you elect literature, you must take Course 97, 98 in the senior year.

Majors in English are urged to take History 11-12 and at least one full year of work in a foreign literature.

## INTRODUCTORY COURSES

All transfer students and foreign students are required to take the English Proficiency Test before registering for Course A1-A2 or any other English course.

### **A1-A2. Reading, Writing, and Speaking.** 6 points. [0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; individual conferences with instructor each week. Prescribed for freshmen except in a few special cases. The only other English courses open to freshmen are Courses 19, 20; 21-22, R21; 27, 28, any of which may be taken parallel to A1-A2. PROFESSOR ROSENBERG and members of the department.

Sections of Course A1-A2 meet at the following hours: M W F 9, 10, 11, 1, 2. T Th 9:10-10:25, 10:35-11:50, 2:10-3:25.

All sections meet in Barnard Hall. Room assignments will be posted outside Room 401 Barnard.

### **D1, D2. Speech.** No credit. [0]

Individual speech examinations for transfer students who have not had the equivalent of, and are not enrolled in, English A1. MISS NELBACH. Hours to be arranged.

## WRITING

General prerequisite, Course A1-A2. To elect any course in writing, a student must secure the written permission of the instructor in charge, or of the Chairman.

### **1, 2. English Composition.** 6 points. [0]

A course designed especially for students who need additional training in composition beyond the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Students may take either semester or both. Cannot be counted toward a major in English. MR. PETTIT. T Th 2:10-3:25. 405 Barnard.

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### 3, 4. Exposition: Structure and Style. 6 points. [0]

An advanced course in composition, including study of exposition, narration, description, and argumentation. Weekly compositions required. Students may take either semester or both. T Th 2:10-3:25. 409 Barnard.

### 5, 6. Advanced Composition. 6 points. [0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either semester or both. PROFESSOR KOUWENHOVEN. M W F 2. 411 Barnard.

Note: The following courses are open only to those who have passed at least one semester of Courses 3, 4, 5, or 6 with a grade of B- or better, or who have received written permission from the Chairman.

### [7, 8. Writing Non-Fiction. 6 points.

Not given in 1956-57.]

### 11, 12. Story Writing. 6 points. [0]

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and wide reading in the short story. Course 11 is prerequisite to Course 12. MISS CALISHER. T Th 2:10-3:25. 411 Barnard.

### 13, 14. Dramatic Writing. 4 or 6 points. [0]

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. MR. TEICHMANN. T 2:10-3:25. 407 Barnard.

## SPEECH

For courses important to students of speech, other than those listed below, see Courses 53, 54; 55, 56; Drama Workshop 1, 2, 3, 4; ★F. A. Acting 105-106. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, WKCR, offer practical experience.

### 19. Informal Speaking. 1 point. [0]

Practice in discussion and speaking to small groups for students who wish help in making themselves understood and who wish experience in thinking on their feet. MISS NELBACH and MR. NORMAN. Section I Th 9. 411 Barnard. Section II Th 9. 410 Barnard.

### 20. Informal Speaking. 1 point. [0]

Same as Course 19, but given in Spring Session. MISS NELBACH and MR. NORMAN. Section I Th 9. 411 Barnard. Section II W 12. 411 Barnard.

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## 21-22. Voice and Diction. 6 points.

[0]

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech and a pleasing voice. Registration limited to 15 students. Written permission of the instructor required. Miss CAUGHRAN and MR. NORMAN. Section I M W F 11. 410 Barnard. Section II M W F 2. 410 Barnard. Section III T Th 10:35-11:50. 410 Barnard.

## R21. Voice and Diction. 3 points.

[0]

Same as Course 21, but given in Spring Session. Miss NELBACH. Section I M W F 2. 410 Barnard. Section II T Th 9:10-10:25. 410 Barnard.

## 23, 24. Oral Interpretation of Literature. 6 points.

[0]

The study and presentation of ballads, lyrics, monologues, and essays. PROFESSOR HIBBITT and Miss NELBACH. Section I M W F 9. 410 Barnard. Section II M W F 9. 411 Barnard.

## 27, 28. Public Speaking. 4 or 6 points.

[0]

Training in the delivery of prepared and extemporaneous speeches and in leading and participating in panel and round-table discussions. Techniques of argumentation and debate. Parliamentary procedure. MR. NORMAN. T Th 2:10-3:25. 410 Barnard.

Note: The following courses, given at Teachers College, are open only to English majors whose special field is Speech and to majors in Psychology. See your major adviser.

## Education 261 KE. Speech Development and Correction. 2 or 3 points.

A study of the speech problems of students on the kindergarten, elementary, secondary, and adult school levels. Demonstrations are given. PROFESSOR ZIMMERMAN. F 7:30-9:10 p.m. 125 Macy.

## Education 261 KEx-262 KEx. Speech Improvement Laboratory. 2 or 4 points.

This course supplements Education 261 KE with supervised observation and practical experience with children and high school students who have speech problems. PROFESSOR ZIMMERMAN. S 11-12:30 (children); F 6-7:15 (high school students). 125 Macy.

## Education 261 K. Speech Pathology. Spring Session. 3 points.

Consideration of disorders of articulation, phonation, rhythm, and symbolization: classification, methods of diagnosis, and therapy. Prerequisite: Education 261 KE. PROFESSOR ZIMMERMAN and special lecturers. F 7:30-9:10 p.m. 125 Macy.

## DRAMA

The work of English majors specializing in drama involves the Drama Workshop courses 1-2, 3-4 (which combine academic and technical work); the courses in dramatic literature (63; 69, 70; 86); and the course in dramatic writing (13, 14). See page 47 for related courses in other departments.

In addition to the Drama Workshop itself, the college dramatic club, *Wigs and Cues*, the *Gilbert and Sullivan Society*, and the campus radio station, WKCR, offer opportunities for practical experience.

Advanced students who have had or are taking Drama Workshop 1-2, 3-4 may on written permission of Mr. Sweet apply for one of the technical courses in the Columbia School of Dramatic Arts which are listed below. There will be no additional fee for English majors at Barnard who are specializing in drama or speech, but points of credit in technical courses must be paired with an equal number in academic courses in dramatic literature.

**Drama Workshop 1-2 (same as English 95-96).** 6 or 8 points. [10]

Theory and practice of modern drama will be examined through lectures on dramatic literature since 1850, history of stage and costume design, study of current New York productions, museum projects, and special lectures by professional theater specialists. These will be balanced by laboratory work on scenes treated as problems in acting and directing, and in practical stagecraft (scenery, costumes, lighting, make-up).

Recommended for advanced students who are specially interested in the theater and have shown competence in some phase of dramatic work: acting, directing, writing, designing, stage-history.

Registration is limited. Requisite: preceding or parallel, 6 points in drama courses (English 63, 69, 70, 86, or the equivalent in a foreign language), and the written permission of Mr. Sweet. PROFESSOR HOUGHTON, MRS. URMY, MESSRS. SWEET and CAMPBELL. M W F 2-6. Theater.

[**Drama Workshop 3-4.** 6 or 8 points.

Not given in 1956-57.]

**★F. A. Acting 105-106. Theater Reading.** 4 points.

Practice in theater reading for the development of vocal power, flexibility, and variety. Individual and group practice in the interpretation of lines and scenes. MISS KELLER. F 12:55-2:35. Brander Matthews Auditorium.

**★F. A. Acting R105-R106. Theater Reading.** 4 points.

Same as 105-106, starting in Spring Session. MISS KELLER. M 6:35-8:15. Brander Matthews Auditorium.

**★F. A. Acting 107-108. The Study of Roles and Scenes.** 4 points.

PROFESSOR SMITH. Th 2:45-4:25. Brander Matthews Auditorium.

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**★F. A. Play Directing 105–106. Rehearsal.** 6 points.

MR. SCHNITZER. M W F 10-11:40. Brander Matthews Auditorium.

**★F. A. Stagecraft 5. Stage Lighting.** 2 points.

MISS BURKHALTER. T 6:35–8:15. Brander Matthews Auditorium.

**★F. A. Stagecraft 109–110. Stage Design.** 4 points.

An advanced course in stage design. Limited to 15 students. -----.  
W 7–10 p.m. 506 W Avery.

## LANGUAGE AND LITERATURE

Courses marked thus § will count toward the literature part of the humanities requirement.

**§41, §42. Introduction to English Literature.** 6 points.

[12]

A general view of the scope and variety of English literature through study of selected writers and their works. Winter Session: Beowulf through Dryden. Spring Session: 1700 to the present. PROFESSORS MC GUIRE, TILTON, ROSENBERG, and BOVIE, and MR. PATTERSON and -----. Section I M W F 9. 409 Barnard. Section II M W F 11. 409 Barnard. Section III M W F 1. 409 Barnard.

**[43, 44. The Tradition of the Humanities (same as Classical Civilization 87, 88.)** 6 points.

Not given in 1956-57.]

**[51, 52 (also ★261, 262). History of the English Language.** 6 points.

Not given in 1956-57.]

**53. §54, (also ★263, 264). Anglo-Saxon Language and Literature.** 6 points. [1]

Winter Session: An introduction to the study of Anglo-Saxon. Spring Session: The Beowulf. Course 53 is prerequisite to Course 54. Course 53 cannot be counted toward the literature requirement for the degree. PROFESSOR GREET. W F 9. 405 Barnard.

**§55, §56. Chaucer and His Contemporaries.** 6 points.

[8]

Winter Session: Chaucer's *Canterbury Tales*. Spring Session: *Troilus and Criseyde*, poetry and prose of the fourteenth century, including *Pearl*, *Gawain and the Green Knight*, *Piers Plowman*, selections from John Wyclif and others. English majors should take either Course 55 or Course 56. PROFESSOR GREET. T Th 10:35–11:50. 301 Barnard.

## ENGLISH

**§62. The Tudor Renaissance.** 3 points. [4]

The New Learning, the Reformation, the New World; Tudor historians, poets, and playwrights. PROFESSOR ROSENBERG. M W F 1. 301 Barnard.

**§63. Shakespeare and the Elizabethan Mind.** 3 points. [3]

An introduction to the meaning, scope, and greatness of Shakespeare. PROFESSOR ROBERTSON. M W F 11. Theater.

**§66. Milton and Seventeenth-Century Literature.** 3 points. [3]

The poetry of Jonson and the "classical" poets, Donne and the "metaphysicals," with some readings in prose; the major works of Milton. PROFESSOR COLIE. M W F 11. Theater.

**§69. Development of English Drama From its Beginnings to 1642.** [2] 3 points.

Miracle plays, moralities, and interludes; Elizabethan, Jacobean, and Caroline drama. MR. PATTERSON. M W F 10. 409 Barnard.

**§70. English Drama From the Restoration to the End of the Nineteenth Century.** 3 points. [2]

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. MR. SWEET. M W F 10. 409 Barnard.

**§71, §72. The English Novel.** 6 points. [8]

Winter Session: Eighteenth- and twentieth-century pioneers such as Defoe, Fielding, and Sterne; Joyce, Lawrence, and Virginia Woolf. Spring Session: The nineteenth century, Jane Austen to Conrad. —————. T Th 10:35-11:50. 408 Barnard.

**§73, §74. English Literature of the Eighteenth Century.** 6 points. [8]

Winter Session: Pope, Swift, and the Augustans. Spring Session: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. T Th 11, T 3:35-4:25.

On Tuesday and Thursday mornings the class will attend the lectures of ★English 213, 214. 506 Butler. The Tuesday afternoon session will be a discussion. 409 Barnard.

**§75. English Poets of the Romantic Period.** 3 points. [3]

The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in the light of contemporaneous theories of poetry and of present-day criticism. PROFESSOR MCGUIRE. M W F 11. 408 Barnard.

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## **§78. Victorian Poets.** 3 points.

[3]

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. PROFESSOR ROBERTSON. M W F 11. 408 Barnard.

## **§79, §80. American Literature from the Colonial Period to the Present Day.** 6 points. [5]

Winter Session: Jonathan Edwards to Walt Whitman. Spring Session: Mark Twain to William Faulkner. PROFESSORS TILTON and LEARY. M W F 2. 408 Barnard.

## **82. Shapes of American Experience.** 3 points. [10]

Studies of form and structure in literature and other arts. Each student will keep a notebook, summarizing and commenting upon the readings and other aspects of the work. Open to all except freshmen. PROFESSOR KOUWENHOVEN. M 3 (lecture), W 3-5 (discussion). 408 Barnard.

## **83. Modern Literature and the Allied Arts.** 3 points. [9]

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theater, and the motion picture. Gallery trips and record-listening. Written permission of the instructor required. PROFESSOR ULANOV. T Th 2:10-3:25. 408 Barnard.

## **86. Drama from Ibsen to the Present.** 3 points. [9]

Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. T Th 2:10-3:25. 408 Barnard.

## COURSES FOR MAJORS

### **91, 92. The English Conference.** 2 points. [0]

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both junior and senior years. It is not open to other students. PROFESSOR GREET and members of the department. Th 3:35-4:25. College Parlor.

### **93 (or R93). Literary Criticism: Analysis and Appreciation.** 3 points either session. [0]

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works in the history of literary criticism. Frequent short papers.

Course 93 (or R93) is required of all English majors in the junior year. PROFESSORS COLIE and ULANOV, and MR. PATTERSON. Section I M 2-4. 409

## ENGLISH

Barnard. Section II F 1-3. 407 Barnard. Section III T 4-6. 406 Barnard.

**95-96. Studies in Drama.** 6 or 8 points. [10]

Given in connection with Drama Workshop 1-2, 3-4. See page 59. PROFESSOR HOUGHTON.

**97, 98. Studies in Literature.** 6 points. [0]

The purpose of each section is to study intensively a limited portion of the field. A combination of two sections, one of Course 97 and one of Course 98, is required in the senior year of all English majors who elect advanced work in literature, rather than in drama, writing, or speech. Registration in each section is limited. Consult Professor McGuire before completing program. MEMBERS OF THE DEPARTMENT.

### Winter Session:

Section I. Literary Problems. PROFESSOR MCGUIRE. W 3-5. 411 Barnard.

Section II. Medieval English. PROFESSOR GREET. T 3:25-5:15. 402 Barnard.

Section III. Spenser and Sixteenth-Century Poetry. PROFESSOR ROSENBERG. W 3-5. 405 Barnard.

Section IV. Seventeenth-Century Studies. PROFESSOR COLIE. W 3-5. 407 Barnard.

Section V. Victorian Prose. PROFESSOR ROBERTSON. T 3:25-5:15. 411 Barnard.

Section VI. Major American Writers. PROFESSOR KOUWENHOVEN. W 3-5. 406 Barnard.

### Spring Session:

Section I. Literary Problems. PROFESSOR MCGUIRE. W 3-5. 411 Barnard.

Section II. Medieval English. PROFESSOR GREET. T 3:25-5:15. 402 Barnard.

Section III. Shakespeare. PROFESSOR ROBERTSON. W 3-5. 405 Barnard.

Section IV. Eighteenth-Century Studies. PROFESSOR BOVIE. W 3-5. 407 Barnard.

Section V. Contemporary Literature. ----- T 3:25-5:15. 411 Barnard.

## FINE ARTS

PROFESSORS: JULIUS S. HELD (Acting Executive Officer), <sup>1</sup>MARION LAWRENCE

ASSOCIATE PROFESSOR: JANE G. MAHLER

ASSISTANT PROFESSOR: MARIANNA BYRAM

LECTURERS: BARBARA NOVAK DEUTSCH, ILENE ELEANOR HAERING, ELIZABETH McCUSA  
LAND, MARGARETTA SALINGER

STUDIO ASSISTANT: MOLLY TEASDALE

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSISTANT PROFESSOR: EVELYN B. HARRISON

Courses in fine arts are designed to acquaint the student with the principal achievements in the visual arts of painting, sculpture and architecture of both the past and the present. Since art is an important part of our cultural heritage, a study of its history contributes greatly to our understanding of man's development and his higher aspirations.

Courses are generally of the lecture type, conducted with lantern slides. Some meet for the third hour in small groups for the closer examination of illustrative material and informal discussions. Trips to the museums are an important part of class instruction, and in all courses, full advantage is taken of the artistic resources of New York City.

While studio techniques are taught in only one course, 1-2, students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 67 for regulations governing these courses.

A student majoring in fine arts will be required to take the seminar, 97-98, and courses in the following fields: ancient, medieval, renaissance, baroque and modern. The major student upon her graduation should have acquired both a background of specific knowledge and methods of dealing with new material which will equip her to start graduate work, museum or teaching apprenticeship, or writing in the art field.

Other fields: A reading knowledge of French, German, or Italian is highly desirable. Students who expect to do graduate work should have German and one other modern language. Courses in history, literature, languages, philosophy, religion, and other fields afford interesting correlations and should be chosen in consultation with the major adviser.

The major examination is in two sections of three hours each and is designed to test (1) the student's general knowledge of important artists and movements in the main fields; (2) her ability to analyze style; (3) her competence in one special and limited field chosen by the student in consultation with her major adviser and in which she has been working in the Senior Seminar.

**1-2. Introduction to the Study of Fine Arts.**  
6 points.

4, or with laboratory,  
[8]

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression

<sup>1</sup> Absent on leave, 1956-57.

and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York City.

Laboratory work: drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

This course satisfies the non-literature requirement in the humanities. **Mrs. DEUTSCH.** T Th 11. 204 Milbank. Laboratory: Section I W 12:30-2:20. 419 Barnard. Section II Th 2-4. 419 Barnard.

**43. Introduction to Ancient Art.** 3 points.

[10]

A survey of the ancient art of Egypt, Mesopotamia, Greece and Rome down to the time of Constantine with emphasis on the major arts: architecture, painting and sculpture. Open to all except freshmen. ★History 5, 6 is recommended as a parallel course. **PROFESSOR HARRISON.** M W 3. Visits to the Metropolitan Museum of Art, F 3:30, or at hours to be announced.

**51, 52. Medieval Art.** 6 points.

[5]

Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, then the Celtic, Carolingian and Romanesque styles of western Europe with emphasis on mosaics and illuminated manuscripts. Spring Session: Romanesque sculpture of France, Romanesque architecture of Italy and France and Gothic architecture, sculpture and painting, ending with introduction of the Italian Renaissance into France. Open to juniors and seniors. History 7, 8 is recommended as a parallel course. Course 51 is prerequisite to Course 52. **MISS HAERING.** M W F 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged. 204 Milbank.

**[61. European Architecture from the Renaissance through the Rococo Style.** 3 points. **PROFESSOR BYRAM.**

Not given in 1956-57.]

**63. European Sculpture, Renaissance and Modern.** 3 points.

[2]

Important developments in European sculpture from the Pisani and the Italian Renaissance into the twentieth century. One or two term examinations and possibly one or two short papers. Open to all except freshmen. **PROFESSOR BYRAM.** M W F 10. 204 Milbank.

**65. Renaissance Painting in Northern Europe.** 3 points.

[9]

Painting in the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. **MISS SALINGER.** T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. 335 Milbank.

# BARNARD COLLEGE

**66. Italian Renaissance Painting.** 3 points. [9]

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. Miss SALINGER. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. 335 Milbank.

[**R68. Prints and Drawings.** 3 points. PROFESSOR BYRAM.

Not given in 1956-57.]

**70. European and American Architecture from the Eighteenth Century into the Twentieth Century.** 3 points. [2]

From the classic Revival of the eighteenth century in France, Germany, and England. The last third of the course is on American architecture from the eighteenth century to the present. Open to all except freshmen. PROFESSOR BYRAM. M W F 10. 204 Milbank.

**75, 76. European Painting since the Renaissance.** 6 points. [7]

The artists of Mannerism and Baroque (Michelangelo, El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt), the influence on art of Counter-Reformation and Absolutism. Spring Session: The artists of the Rococo (Watteau); Classicism and Romanticism (David, Goya, Delacroix); Realism, Impressionism, and the emergence of modern art (Courbet, Manet, Cézanne, Van Gogh, Picasso). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. PROFESSOR HELD. T Th 10:35-11:50. 335 Milbank.

**77. American Art from Colonial Times to the Armory Show.** 3 points. [4]

Painting, sculpture and architecture from their beginnings in the colonial period through the growth of realism and other movements of the nineteenth century, to the introduction of "avant-garde" styles from Europe in 1913. Miss McCausland. M W F 1. 335 Milbank.

**78. Modern European and American Painting.** 3 points. [4]

Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin to Pollock. Open to all except freshmen. ----- M W F 1. 335 Milbank.

**[81. Masterpieces of Art in the New York Museums.** 3 points. PROFESSOR HELD.

Not given in 1956-57.]

## 91, 92. Oriental Art. 6 points.

[3]

The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting and frescoes, and minor arts. Spring Semester: The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. PROFESSOR MAHLER. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged. 204 Milbank.

## 97-98. Seminar for Majors. 6 points.

[13]

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and a term paper in the second semester on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR HELD. Th 3-5. 813 Schermerhorn.

## TECHNICAL COURSES

Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts. A maximum of 12 points of studio work may be credited towards the Barnard degree. Junior and senior majors are exempt from special fees.

## ★G.S. Drawing 1-2. The Grammar of Art. 4 points.

Drawing and painting. Orientation of the student to art as a language. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts. Through personal supervision, the student is guided in the practice of drawing and painting. Course 1 is prerequisite to Course 2, except on written permission of the instructor. Special fee, \$60 each session and model fee, \$5 each session. PROFESSOR MANGRAVITE assisted by MR. DORSAY. Section I M Th 1-3. Section II M Th 3-5. Section III T F 9-10:50. Section IV T F 11-1. East Hall.

## ★G.S. Drawing 3-4. The Grammar of Art. 4 points.

The elementary principles of three-dimensional drawing and painting studied from organic forms and from the human figure. Their proportion, action, character and design are stressed, and the synthesis of drawing and painting emphasized. Prerequisite: Course 1-2, or equivalent experience. Special fee, \$60 each session and model fee, \$5 each session. PROFESSOR MANGRAVITE assisted by MR. DORSEY and MR. WYATT. Section I M Th 10-12. Section II T Th 3-5. East Hall.

Other studio courses given at Columbia University may be taken by written permission of the Executive Officer of the department. These courses are described

# BARNARD COLLEGE

in the Announcement of the School of General Studies under Painting and Sculpture.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Executive Officer of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following are specifically recommended as suitable for Barnard seniors:

- ★118. Spanish and Latin American Art. 3 points. PROFESSOR COLLINS.
- ★124. Art of the South Pacific. 3 points. PROFESSOR WINGERT.
- ★127. Art of the Northwest Coast. 3 points. PROFESSOR WINGERT.
- ★129. Art of Primitive Africa. 3 points. PROFESSOR WINGERT.
- ★146. Roman Art. 3 points. PROFESSOR SWIFT.
- ★148C. Sculpture of the Hellenistic Age. 3 points. PROFESSOR HARRISON.
- ★156B. Romanesque Painting. 3 points. PROFESSOR SCHAPIRO.
- ★161. Architecture of the Renaissance. 3 points. PROFESSOR SWIFT.
- ★164. Italian Painting of the Early Renaissance Outside of Florence. 3 points. PROFESSOR DAVIS.
- ★165. Flemish Painting of the 15th Century. 3 points. PROFESSOR DAVIS.
- ★166. Italian Architecture 1420-1550. 3 points. PROFESSOR WITTKOWER.
- ★R169B. Flemish Painting of the 16th and 17th Centuries. 3 points. PROFESSOR HELD.
- ★172. Modern Architecture. 3 points. PROFESSOR SWIFT.
- ★R174. Baroque Sculpture. 3 points. PROFESSOR WITTKOWER.
- ★R176. Modern Painting since 1900. 3 points. PROFESSOR SCHAPIRO.
- ★197. History of Chinese Art. 3 points. PROFESSOR MAHLER.
- ★198. History of Japanese Art. 3 points. PROFESSOR MAHLER.

# FRENCH

ASSOCIATE PROFESSORS: HELEN PHELPS BAILEY, LEROY BREUNIG (Executive Officer), ANDRÉ MESNARD, ISABELLE DE WYZEWA

ASSISTANT PROFESSOR: RENÉE J. KOHN

ASSOCIATE: HELEN M. CARLSON

INSTRUCTORS: ELIZABETH BLAKE, ALBA-MARIE FAZIA, TATIANA GREENE

LECTURER: ANTOINETTE NOEL HOFFHERR

VISITING LECTURER: FRANÇOIS THOMAS

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSOCIATE PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

A student majoring in French must take an advanced composition course, 13, 14; an advanced oral course, 17, 18 or 41-42; and three literature courses in addition to Course 7-8. The Special Reading Seminar, 37-38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39-40, as one of their literature courses.

Other fields: Courses in history, fine arts, or other fields which vary with the interest of the student should be elected after consultation with the department.

The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

## LANGUAGE COURSES

**1-2. Introductory Full-Year Course.** 8 points. [14]

Grammar, reading, composition. Work in the phonetics studio is part of the course. PROFESSOR MESNARD and Miss BLAKE. Section I M T W Th F 9. 4 Milbank. Section II M T W Th F 11. 4 Milbank.

**3, 4, Intermediate Course.** 6 points. [14]

Review of grammar and syntax. Translation, reading, oral practice, free composition. Prerequisite: Course 1-2 or two years of high school French. MRS. GREENE, MRS. HOFFHERR, and DR. FAZIA.

Section 1 M W F 12. 309 Milbank.

Section II M W F 1. 203 Milbank.

Section III M W F 2. 309 Milbank.

Section IV M W 3:10-4:25. 203 Milbank.

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## R4. Intermediate Course. Part II. 3 points.

[2]

The equivalent of Course 4 but given in the Winter Session. Prerequisite: Course 3 or three years of high school French. MISS BLAKE. M W F 10. 321 Milbank.

## 5x, 6x. Practical Course in Sight Reading and Prepared Translation.

[14]

6 points.

Texts chosen to develop ease and accuracy in handling a variety of styles and subjects: historical, philosophical, artistic, scientific, as well as literary prose. Especially intended for students wishing to prepare for the foreign language test in French and majors in other subjects who need to understand and translate French texts for reference purposes. Prerequisite: Course 3, 4 or three years of high school French. MISS CARLSON, DR. FAZIA, and MISS BLAKE.

Section I M W F 9. 321 Milbank.

Section II M W F 10. (Winter Session only.) 207 Milbank.

Section III M W F 11. 207 Milbank.

Section IV T Th 10:35–11:50. 207 Milbank.

## R5x. Practical Course in Sight Reading and Prepared Translation.

[2]

3 points.

The equivalent of Course 5x but given in the Spring Session. Prerequisite: Course 4 or three years of high school French. MISS BLAKE. M W F 10. 207 Milbank.

## 5, 6. Discussion and Composition Based on Readings in Modern French Literature with Occasional Practice in Translation. 6 points

[14]

A study based on prose and poetry of the nineteenth and twentieth centuries. Discussion in French of texts read. Free composition, grammar review. Practice in both intensive and extensive reading. Prerequisite: Course 3, 4 or three years of high school French. PROFESSORS DE WYZEWA and KOHN, and MR. THOMAS.

Section I M W F 1. 207 Milbank. Section II M W F 2. 311 Milbank.  
Section III T Th 10:35–11:50. 311 Milbank.

## R5. Conversation and Composition Based on Readings in French Literature with Occasional Practice in Translation. 3 points

[2]

The equivalent of Course 5 but given in the Spring Session. Prerequisite: Course 4 or R4. MR. THOMAS. M W F 10. 321 Milbank.

## 11–12. Review of Grammar and Composition.<sup>1</sup> 4 points.

[6]

Intended primarily for those taking literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions. Open to students of all classes on written permission of the instructor. Limited to 10 students. PROFESSOR MESNARD. T Th 9. 212 Milbank.

<sup>1</sup> Conducted entirely in French.

**13. Advanced Translation.** 2 points. [4]

Translation from French into English of various styles of prose and poetry. Open only on written permission of the instructor. PROFESSOR BREUNIG. M W 1. 12 Milbank.

**14. Advanced Composition.<sup>1</sup>** 2 points. [4]

Translation from English into French. Composition, preparation of critical essays and articles. Open only on written permission of the instructor. PROFESSOR KOHN. M W 1. 12 Milbank.

**15-16. Oral French, Intermediate Full-Year Course.<sup>1</sup>** 4 points. [15]

Pronunciation, recitation, conversations based on selected readings. Work in the phonetics studio is part of the course. Prerequisite: Course 5 or the equivalent, and the written permission of the department. MRS. GREENE and DR. FAZIA. Section I M W 3. 12 Milbank. Section II T Th 9. 106 Barnard.

**17-18. French Phonetics.<sup>1</sup>** 6 points. [1]

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the phonetics studio is part of the course. Open to students on written permission of the instructor. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9. 12 Milbank.

**[41-42. Oral French, Advanced Full-Year Course.<sup>1</sup>** PROFESSOR KOHN.

Not given in 1956-57.]

**LITERATURE COURSES**

The ability to use French both in speaking and in writing is a requirement for all literature courses.

Students who have not taken Course 7, 8 or the equivalent must receive written permission from the instructor in order to take the more advanced literature courses beginning with 21, 22.

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C- or higher is obtained.

**§7, §8. Masterpieces of Literature from the Middle Ages to the Twentieth Century.** 6 points. [14]

Lectures in French on the history of French literature, analysis of texts, recitations, discussions. Essays and reports on outside reading. Winter Session: La

<sup>1</sup> Conducted entirely in French.

# BARNARD COLLEGE

Chanson de Roland through Molière. Spring Session: Voltaire through Proust. Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: Course 5x, 6x; Course 5, 6; Course 4 with a grade of at least B; or three years of high school French and the written permission of the department. PROFESSOR DE WYZEWA, MRS. GREENE, MRS. HOFFHERR and DR. FAZIA.

Section I M W F 12. 311 Milbank.

Section II M W F 2. 203 Milbank.

Section III T Th 10:35–11:50. 321 Milbank.

Section IV T Th 2:10–3:25. 311 Milbank.

## §9, §10. Introduction to French Civilization. 6 points.

[2]

The social, artistic, literary and scientific activities of the French people in the formation of their national life. Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: Course 5x, 6x; Course 5, 6; Course 4 with a grade of at least B; or three years of high school French and the written permission of the department. PROFESSOR MESNARD. M W F 10. 29 Milbank.

## §21, §22. French Literature in the Middle Ages and the Renaissance. 6 points. [3]

Study of selected works of literature with reference to the history and art of the respective periods. PROFESSOR KOHN. M W F 11. 12 Milbank.

## §23. The French Classical Theater. 3 or 4 points.

[2]

The principles of French classical tragedy and comedy. Detailed study of masterpieces of Corneille, Racine, and Molière. PROFESSOR BREUNIG. M W F 10. 12 Milbank.

## §24. French Prose and Poetry in the Seventeenth Century. 3 or 4 points. [2]

A study of classical prose in the works of Descartes, Pascal, Bossuet and the “écrivains mondains.” The poetry of Malherbe, LaFontaine and Boileau. PROFESSOR KOHN. M W F 10. 12 Milbank.

## §25, §26. French Literature in the Eighteenth Century. 6 points.

[7]

The chief essayists, novelists, and dramatists of the period in their most significant works and letters. PROFESSOR DE WYZEWA. T Th 10:35–11:50 12 Milbank.

## §27, §28. French Literature in the Nineteenth Century. 6 or 8 points. [1]

[1]

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. Winter Session: Fiction and drama. Spring Session: Poetry. PROFESSOR BAILEY and MR. THOMAS. M W F 9. 202 Milbank.

## FRENCH

**§29. French Prose in the Twentieth Century.** 2 or 3 points. [6]

The major novelists and essayists of the last fifty years. MR. THOMAS. T Th 9. 12 Milbank.

**§30. French Theater in the Twentieth Century.** 2 or 3 points. [6]

The major dramatists of the last fifty years. PROFESSOR BREUNIG. T Th 9. 12 Milbank.

[§31, §32. History of the French Novel. 6 points. PROFESSOR DE WYZEWA.

Not given in 1956-57.]

**37-38. Special Reading Seminar.** 4 or 6 points. [0]

Intended primarily for French majors. Students will be given a program of supervised reading which will help them to coordinate their work in other French courses. MR. THOMAS. T Th 2. 12 Milbank.

**39-40. Senior Thesis.** 4 points. [0]

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DEPARTMENT. Hours for consultation to be arranged.

**126. Contemporary French Poetry.** 3 points. [14]

French poetry from Symbolism to the present with analyses of significant poems since 1885. PROFESSOR BREUNIG. W 4:35-6:15. 4 Milbank.

# GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP (Executive Officer)

ASSISTANT PROFESSOR: LEONARD ZOBLER

LECTURER: JANE LANCASTER

## GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view toward the earth.

A student majoring in geology will, after the beginning earth science course, take Courses 11-12, 19, 21, 27, and 60 in partial fulfillment of the major requirement. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Financial aid for this purpose may be available. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in this department at a reasonable minimum.

The major examination in geology will consist of the Graduate Record Examination and a three-hour written examination.

## GEOGRAPHY

The function of modern geography appears to be an integration of the natural and social sciences around a framework of earth regions. In this way, each area of the earth, whether developed or undeveloped, densely or sparsely populated, can be analyzed, and its present and potential place in the modern world can be indicated. Geographers are thus interested in all the varied natural resources of the earth and in the physical environment; they are equally interested in the many ways in which man has or will use these resources in his response to environment.

A student majoring in geography will gain an understanding of the first of these themes from certain required courses in physical geography and geology; of the second, from certain essential courses in geography and from courses in the social sciences, related to geography. Further integration of the two themes will be sought in a senior seminar. In addition, majors are encouraged to take a liberal selection of courses in the humanities.

## **GEOLOGY AND GEOGRAPHY**

The major examination requirement in geography will be fulfilled by a one-hour examination on the use of maps plus completion of Course 60.

### **NATURAL RESOURCES**

A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 36.

### **GEOGRAPHY**

#### **1, 2. Physical Geography. 6 points. [7]**

Designed to give the student an understanding of those aspects of the physical environment which are a part of daily experience; they should be of especial value to prospective teachers. Winter Session: The solar system, the size and shape of the earth, latitude and longitude, cartography, the use of maps, earth-sun relations, time, moon and tides, weather and climate. Spring Session: The earth's crust, rocks and minerals, origin of landforms, hydrology, formation of soils, genesis and distribution of mineral resources. These courses satisfy the non-laboratory physical science requirement. PROFESSOR ZOBLER. T Th 10:35-11:50. 233 Milbank.

#### **3, 4. World Regional Geography. 6 points. [3]**

Distribution of world agricultural and mineral resources, industry, and population. Winter Session: World agricultural-climatic regions and resource development, population pressure, and economic trends in tropical, temperate, and polar regions. Interaction of physical and cultural environments. Problems of the under-developed areas. Spring Session: Distribution of mineral fuels and water power, mineral resources, industrial development, centers of population, world trade routes, and manufacturing regions. Course 3 is a prerequisite for Course 4. Together they satisfy the contemporary society requirement. PROFESSOR ZOBLER. M W F 11. 212 Milbank.

#### **12. Conservation of Natural Resources. 3 points. [5]**

A technical study of renewable and non-renewable material resources; consumption trends and conservation measures. Soil and water conservation, minerals, forests, and fisheries. The interplay of physical, economic, and political factors. Case studies of such multi-purpose projects as TVA. One-day field trip and report are required. Prerequisite: One term of earth science and permission of the instructor. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLER. M W F 2. 212 Milbank.

#### **15. Regional Geography of the United States. 3 points. [5]**

The distribution of natural resources, soils, mineral and organic raw materials, climate, and landforms and their impact on the pattern of economic activity in the United States. Emphasis upon the interaction between physical and cultural

# BARNARD COLLEGE

environment and the contribution of each region to national output. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLER. M W F 2. 212 Milbank.

## R17. Cartography. 3 points.

[13]

Principles governing choice of projection, scale, and grid in map making; methods of depicting relief; use of aerial photographs; evaluation of source material. Prerequisite: One year of geology or geography. MISS LANCASTER. T Th 4. 212 Milbank.

# GEOLOGY

## 1. Physical Geology. 4 points.

[2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, and contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. PROFESSOR SHARP and MISS LANCASTER. Lec. M W F 10. Theater. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. 210 Milbank.

## 2. Historical Geology. 4 points.

[2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and, if conditions permit, a required Saturday field trip. Prerequisite: Course 1. PROFESSOR SHARP and MISS LANCASTER. Lec. M W F 10. Theater. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. 210 Milbank.

## 1a. Physical Geology. 3 points.

[2]

Lectures and assignments identical with those of Geology 1. No laboratory work. To follow or parallel a laboratory science. With Course 2a it satisfies the non-laboratory science requirement. PROFESSOR SHARP. M W F 10. Theater.

## 2a. Historical Geology. 3 points.

[2]

Lectures and assignments identical with those of Geology 2. No laboratory work. Prerequisite: Course 1 or 1a. With Course 1a it satisfies the non-laboratory science requirement. PROFESSOR SHARP. M W F 10. Theater.

## ★11-12. Elements of Mineralogy and Lithology. 6 points.

The sight recognition and uses of the common minerals and rocks and an introduction to the microscopic identification of minerals. Emphasis on minerals of economic importance and of widespread occurrence. PROFESSOR HOLMES. T Th 11 and T or W 2-4. 417 Schermerhorn.

## GEOLOGY AND GEOGRAPHY

### **19. Structural Geology.** 3 points.

[4]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips. Prerequisite: Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 1. 212 Milbank.

### **★21. Introduction to Paleontology.** 3 points.

The nature and significance of fossils with methods of identification and discussion of their meaning in the development of present-day organisms. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. T F 12. Laboratory to be arranged.

### **[26. (Also ★Geology 134). Geomorphology of Europe.** 3 points. PROFESSOR SHARP.

Not given in 1956-57.]

Given in triennial sequence with similar courses on the eastern and western United States.

### **[27. Principles of Geomorphology.** 3 points. PROFESSOR SHARP.

Not given in 1956-57.]

This course is identical with and meets with Geology 27 listed in the Announcement of Columbia College.

### **28W. (Also ★Geology 130). Geomorphology of the Western United States.** 3 points. [4]

Lectures, map study, and readings on the geomorphic divisions of the western United States. Of value to students majoring in economics, government, history, the natural sciences, and to others wishing to understand the regional aspects of the United States, or expecting to travel within its boundaries. Prerequisite: Geology 1, 2, or 1a, 2a, or Geography 1, 2; may be taken concurrently with 2. Given in triennial sequence with similar courses on the eastern United States and Europe. PROFESSOR SHARP. M W 1. 212 Milbank.

### **★53. Geology of the New York Region.** 1 point.

This course consists of about six day-length field trips to selected localities within 100 miles' radius of New York City. An illustrated field notebook will be maintained by each student. Prerequisite: Course 1-2. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

### **60. Seminar in Geology or Geography.** 3 points.

[0]

A seminar course with discussions, problems, and readings on various topics in geology or geography. Prerequisite: A year of geology or geography. Open to juniors and seniors. PROFESSORS SHARP and ZOBLER. Geography, M 3-5; Geology, W 2-4. 212 and 214 Milbank.

## GERMAN

ASSISTANT PROFESSOR: LOUISE G. STABENAU (Executive Officer)

ASSOCIATE: GERTRUD SAKRAWA

INSTRUCTOR: WILLY SCHUMANN

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is expected to take 28 points of work above the elementary level. Students interested in a teaching career in German should plan to supplement their linguistic training by work in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland, or by attending the Junior Year in Germany; and/or by spending a year at a university in one of these countries after graduation from Barnard College.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, history of art, history, philosophy and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of two three-hour written sections and an oral section of at least one hour. The first part contains mainly factual questions about the whole field of German literature so far as it is covered in our undergraduate offering. The second part consists of essay questions on subjects dealing with literary forms and their development, literary schools, influences and the relationship of literature to current events and thought. The oral test is designed to show the student's aural-oral proficiency in German; the subject matter of the conversation is drawn from things not sufficiently treated in the written examinations and from a special reading list compiled by the department for supplementary work.

## LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1, except in Course 7, 8.

### 1-2. Beginners' Full-Year Course. 6 points.

[15]

Elements of grammar, easy reading, written and oral practice. Course 01-02 should be taken as a parallel course. PROFESSOR STABENAU, MISS SAKRAWA and MR. SCHUMANN. Section I M W F 9. 207 Milbank. Section II M W F 11. 311 Milbank. Section III M W F 12. 207 Milbank.

**01-02. Oral Practice.** 2 points.

[0]

Conversation as extension of the work in Course 1-2. Open also to students in Course 3, 4 and, by special permission, to students in other German courses. **MR. SCHUMANN.** Section I M W 12. 133 Milbank. Section II T Th 9. 321 Milbank. Section III T Th 11. 133 Milbank.

**3, 4. Intermediate Course.** 6 points.

[15]

Intensive and extensive reading of 19th and 20th century literature. Frequent short compositions in German. Grammar review during Winter Session. Prerequisite to Course 3, Course 1-2 or two years of high school German. Prerequisite to Course 4, Course 3 or three years of high school German. **MISS SAKRAWA** and **MR. SCHUMANN.** Section I M W F 12. 39 Milbank. Section II M W F 1. 39 Milbank.

**§7, §8. Advanced Translation.** 6 points.

[3]

Reading and analysis of expository prose in the fields of science, history, literary criticism, and the like. Outside reading of fiction or of material related to student's special field. Some training in understanding spoken German. Prerequisite to Course 7, Course 4 or the written permission of the instructor. Prerequisite to Course 8, Course 7 or the written permission of the instructor. **PROFESSOR STABENAU.** M W F 11. 133 Milbank.

**9, 10. Advanced Practice Course.** 4 or, on written permission of the instructor, 6 points.

[0]

Oral and written expression on a variety of topics, including the German cultural heritage. Opportunity for grammar review. Weekly compositions. Frequent oral reports. Also improvised conversation. Prerequisite: Course 3 or a high rating in three years of high school German. **MISS SAKRAWA.** T Th 9 and individual conferences for the third point. 133 Milbank.

## LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

All courses are conducted in German. Students without aural-oral proficiency should take Course 9, 10 preparatory or parallel to a course in literature.

**§5, §6. Lessing, Goethe, and Schiller.** 6 points.

[2]

Intensive reading and discussion of the major works of these writers. Prose, drama and poetry. Occasional short papers in German. Prerequisite for Course 5, Course 4 or a high grade in three years of high school German. Prerequisite for Course 6, Course 5 or the written permission of the instructor. Course 5, 6 is recommended as preparation for more advanced courses in German literature. **PROFESSOR STABENAU.** M W F 10. 133 Milbank.

## BARNARD COLLEGE

[§25, §26. **The Drama of the Nineteenth Century.** 4 or 6 points.

PROFESSOR STABENAU.

Not given in 1956-57.]

**§27. Prose Fiction of the Nineteenth Century.** 2 or 3 points.

[9]

Reading and discussion of masterworks of German prose. Complementary lectures on literary and cultural tendencies and movements. Prerequisite: Course 5, 6 or 7, 8 or the written permission of the instructor. Miss SAKRAWA. T Th 2. Hour for third point to be arranged. 133 Milbank.

**§28. The Literature of the Twentieth Century.** 2 or 3 points.

[9]

A survey of the development of lyric poetry, drama and prose since the turn of the century. Reading of representative works up to present-day literary production. Discussions and lectures. Prerequisite: Course 5, 6 or 7, 8 or the written permission of the instructor. Miss SAKRAWA. T Th 2. Hour for third point to be arranged. 133 Milbank.

**[§29. German Romanticism.]** 2 or 3 points.

Not given in 1956-57.]

**§35. Goethe's Faust.** 2 or 3 points.

[6]

Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motive in earlier centuries. Three papers for third point. Prerequisite: Course 5, 6 or 7, 8 or the written permission of the instructor. PROFESSOR STABENAU. T Th 9. Hour for third point to be arranged. 39 Milbank.

**§45, §46. History of German Literature from the Earliest Times to the Nineteenth Century.** 6 points.

[13]

A study of representative works on the background of social and cultural conditions. Lectures and discussions. Prerequisite: Course 5, 6 or 7, 8 or the written permission of the instructor. MR. SCHUMANN. T Th 3:10-4:25. 133 Milbank.

## CIVILIZATION COURSE

A knowledge of German is not required.

**[52. German Life and Institutions.]** 3 points. MISS SAKRAWA.

Not given in 1956-57.]

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Philosophy.

# GOVERNMENT

PROFESSOR: THOMAS P. PEARDON

ASSOCIATE PROFESSOR: PHOEBE MORRISON

ASSISTANT PROFESSOR: JOHN B. STEWART (Executive Officer)

INSTRUCTOR: ARNETT ELLIOTT

LECTURER: <sup>1</sup>RUTH A. ROSSA

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer or to engage in any similar activity.

A student majoring in government should take Course 1, 2 and at least two other fundamental courses such as those offered in international relations (11, 12), constitutional law (25, 26), and political theory (31, 32). She should then select more specialized courses in accordance with her field of interest and in conference with her adviser.

A student majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history. When such courses are counted toward the major in government, they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

A student majoring in government must acquire a reading knowledge of some foreign language. For those students interested in Foreign Service and similar activities, the department will plan special programs adjusted to the additional language requirements.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

After the end of the junior year the department will invite a small number of senior majors to present a senior thesis, and to defend it orally before the department, in lieu of a major examination.

At the end of the senior year there will be a major examination of three hours for every student not writing a senior thesis. In addition, every student will revise to the satisfaction of the department one piece of writing undertaken during the senior year.

See also Other Interdepartmental Offerings, page 36 and International Relations, page 33.

## FUNDAMENTAL COURSES

### 1, 2. Modern Constitutional Democracies. 6 points.

Governmental institutions, popular representation and the theory of modern democracy in the United Kingdom, the United States, Canada and France, with

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<sup>1</sup> Absent on leave, Winter Session.

# BARNARD COLLEGE

illustrative material from Australia and India. May be counted toward the requirement in contemporary society. Course 1 is a prerequisite for Course 2. Sections II and V are open to freshmen.

Section I	MR. ELLIOTT.	M W F 10.	215 Milbank	[2]
Section II	PROFESSOR STEWART.	M W F 11.	202 Milbank.	[3]
Section III	MR. ELLIOTT.	M W F 1.	202 Milbank.	[4]
Section IV	PROFESSOR STEWART.	T Th 10:35-11:50.	202 Milbank.	[7]
Section V	PROFESSOR MORRISON.	T Th 2:10-3:25.	203 Milbank.	[9]

## 7. European Political Movements. 3 points. [7]

Recent changes in the politics of continental Europe, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. May be counted toward the requirement in contemporary society. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR PEARDON. T Th 10:35-11:50. 37 Milbank.

## 9. American State and Municipal Government. 3 points. [4]

American state and municipal government with illustrative material from the United Kingdom and France. Such modern problems as the revision of state constitutions and city charters, state-federal and state-municipal relations. Field work is required. Prerequisite: Course 1, 2 or History 3-4. May be counted toward the requirement in contemporary society. ———. M W F 1. 204 Milbank.

## 10. American Political Parties and Practices. 3 points. [4]

Public opinion, the role of pressure groups, and the operation of the party system. First-hand observation of political campaigns and legislative bodies and civic organizations is required. Prerequisite: Course 9. ———. M W F 1. 204 Milbank.

## 11. International Relations. 3 points. [1]

An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. ———. M W F 9. 319 Milbank.

## 12. International Organization. 3 points. [1]

An analysis of the proposals for reconstructing a stable international society. The experience of The Hague Conferences, the League of Nations and the Organization of American States as well as that of the United Nations. Open to all except freshmen. ———. M W F 9. 319 Milbank.

## 25, 26. The Constitution of the United States. 6 points. [6]

Basic issues in American government are studied by the use of materials on constitutional interpretation, especially decisions of the Supreme Court. Designed

## GOVERNMENT

for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2 or History 3-4 or the equivalent. PROFESSOR MORRISON. T Th 9:10-10:25. 219 Milbank.

### 31, 32. The History of Political Thought. 6 points. [2]

Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR STEWART. M W F 10. 212 Milbank.

## SPECIALIZED COURSES

### [15. The Soviet Union. 3 points. MRS. ROOSA.]

Not given in 1956-1957.]

### 16. The U.S.S.R. in World Affairs. 3 points. [9]

Soviet foreign policy since 1917. Diplomacy and communist internationalism during the first two decades of Soviet rule; World War II and its aftermath; current trends. Prerequisite: Course 1, 2 or History 1-2. MRS. ROOSA. T Th 2:10-3:25. 13 Milbank.

### 18. The United States in Contemporary World Politics. 3 points. [4]

Important decisions in American foreign policy since World War II. Discussion of the United Nations, the movement toward European integration, the problem of foreign aid, and the creation of regional defense systems. Open to juniors and seniors. ----- M W F 1. 335 Milbank.

### 27. Administration and Modern Government. 3 points.

The role of administration in modern American government is developed through case studies. Special attention is given the problems of administrative control, responsibility, the civil service, and centralization. Prerequisite: Course 9, or the equivalent. ----- Hours to be arranged.

### 45, 46. Special Reading. 2 or 4 points. [0]

Selected problems in politics and government are examined. This course may be taken only on written permission. MEMBERS OF THE DEPARTMENT. M 3 or W 2 or Th 3.

### 61, 62. Senior Seminar. 6 points. [0]

Significant issues and trends in contemporary politics are developed through readings, discussions and the preparation of papers. This course may be taken only on written permission; intended primarily for government majors, but may

## **BARNARD COLLEGE**

be taken by seniors majoring in related fields. PROFESSOR MORRISON. W 4-6.  
321 Milbank.

### **GRADUATE COURSES**

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

## GREEK AND LATIN

ASSOCIATE PROFESSOR: <sup>1</sup>JOHN DAY (Executive Officer)

VISITING ASSISTANT PROFESSOR: ALICE S. WILSON

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSISTANT PROFESSORS: COLEMAN H. BENEDICT, MARTIN OSTWALD

INSTRUCTORS: HERBERT W. BENARIO, JAMES W. HALPORN, ROBERT J. LENARDON

In co-operation with the Department of Greek and Latin in Columbia University, certain courses (Greek 19-20, 29-30; Latin 19-20, 29-30) are offered in combination with Columbia courses by Columbia instructors; another course (Latin 28) is offered at Barnard College by a Columbia instructor.

The general objectives toward which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-four points in Greek and 4 points in archaeology or classical civilization or Greek history.

A major in Latin: Twenty-four points in Latin and 4 points in archaeology or classical civilization or Roman history.

A major in Greek and Latin combined: The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields: The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both. A reading knowledge of French and German is advised.

The major examination at the end of the senior year consists of two three-hour examinations, the exact delimitation of which is determined by the special interests and preparation of the student, and by the major subject she chooses. In general, the examination will cover translation into English; translation of English into one or the other or both of the classical languages; ancient history and civilization; literature, with a more searching examination in a "special author" to be chosen by the student. The department will, upon request, provide a list of suggested readings which should be of assistance in preparation for the examination.

## CLASSICAL CIVILIZATION

### 55. Greek Literature in Translation. 2 points.

[8]

Homer, Hesiod, lyric poetry, Herodotus, and Thucydides. Open to all except freshmen. PROFESSOR WILSON. T Th 11. 39 Milbank.

<sup>1</sup> Absent on leave, Spring Session.

# BARNARD COLLEGE

[57, 58. **Masterpieces of Greek Thought.** 6 points. **PROFESSOR DAY.**

Not given in 1956-57.]

[87, 88. **The Tradition of the Humanities** (see as English 43, 44).

6 points. **PROFESSOR BOVIE.**

Not given in 1956-57.]

**NOTE:** The following courses in Classical Civilization have been offered in recent years and may be offered again: 49, 50 (Greek Life and Thought); 53, 54 (Roman Life and Thought); 75 (Greek Political Thought); 77 (Classical Drama); 78 (Comparative Literature).

## GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C- or higher is obtained.

**1-2. Introductory Course.** 6 points.

[5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. **PROFESSOR WILSON.** M W F 2. 209 Milbank.

**§11. Plato: Apology; Euripides: One Play.** 3 points

[2]

Prerequisite: Course 1-2 or three years of high school Greek or permission of the department. **PROFESSOR DAY.** M W F 10. 409 Barnard.

**§12. Selections from Homer and Herodotus.** 3 points.

[2]

Prerequisite: Course 1-2 or three years of high school Greek or permission of the department. **PROFESSOR WILSON.** M W F 10. 409 Barnard.

**19-20. Prose Composition: First Course.** 2 points.

[0]

May be taken in connection with any reading course in Greek (except Course 1-2), but not separately, and may be taken for credit in two different years. Particularly recommended to students who have taken only Course 1-2. **DR. HALPORN.** Th 1. 512 Hamilton.

**§21. Greek Tragedy.** 3 points.

[3]

Prerequisite: Courses 11 and 12 or permission of the department. -----.  
M W F 11. 39 Milbank.

**§22. Thucydides.** 3 points.

[3]

Prerequisite: Courses 11 and 12 or permission of the department. -----.  
M W F 11. 39 Milbank.

## GREEK AND LATIN

Courses 21, 22 and 25 (Greek Oratory), 26 (Greek Comedy) are offered in alternate years.

### **29–30. Prose Composition: Advanced Course. 2 points. [0]**

Prerequisite: Course 19–20 or the equivalent. May be taken in connection with any reading course in Greek, but not separately, and may be taken for credit in two different years. PROFESSOR BENEDICT. Th 1. 510 Hamilton. See also Fine Arts 43, page 65, and ★History 5, 6, page 90.

## LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C—or higher is obtained.

### **3. Vergil: Selections from Aeneid I–VI. 3 points. [5]**

Prerequisite: Two or three years of high school Latin or the equivalent. Course 19–20 is strongly recommended as a parallel course. PROFESSOR BOVIE. M W F 2. 29 Milbank.

### **4. Cicero: Selections; Ovid: Selections. 3 points. [5]**

Prerequisite: Two or three years of high school Latin or the equivalent. Course 19–20 is strongly recommended as a parallel course. PROFESSOR BOVIE. M W F 2. 29 Milbank.

### **§11. Selections from Latin Literature. 3 points. [4]**

Prerequisite: Course 3 or 4 or four years of high school Latin. Course 19–20 is strongly recommended as a parallel course. PROFESSOR WILSON. M W F 1. 209 Milbank.

### **§12. Horace: Odes and Epodes. 3 points. [4]**

Prerequisite: Course 3 or 4 or four years of high school Latin. Course 19–20 is strongly recommended as a parallel course. PROFESSOR WILSON. M W F 1. 209 Milbank.

### **19–20. Prose Composition: First Course. 2 points. [0]**

May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. Strongly recommended as a parallel to Courses 3, 4 and 11, 12. DR. BENARIO. T 2. 510 Hamilton.

### **§27. Horace: Satires and Epistles. 3 points. [6]**

Prerequisite: Courses 11 and 12 or permission of the department. PROFESSOR DAY. T Th 9:10–10:25. 406 Barnard.

## **BARNARD COLLEGE**

**§28. Tacitus: Selections from the Annals.** 3 points. [6]

Prerequisite: Courses 11 and 12 or permission of the department. PROFESSOR BENEDICT. T Th 9:10–10:25. 406 Barnard.

Courses 27, 28 are rotated in a three-year cycle with Courses 21 (Juvenal; Martial; Pliny); 22 (Cicero; Ovid); 25 (Livy; Vergil); 26 (Roman Drama).

**29–30. Prose Composition: Advanced Course.** 2 points. [0]

Prerequisite: Course 19–20. May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. PROFESSOR OSTWALD. M 3. 507 Hamilton.

# HISTORY

PROFESSORS: RENÉ ALBRECHT-CARRIÉ (Executive Officer), BASIL RAUCH

ASSOCIATE PROFESSORS: <sup>1</sup>VIRGINIA D. HARRINGTON, CHILTON WILLIAMSON

ASSISTANT PROFESSOR: SIDNEY A. BURRELL

ASSOCIATE: <sup>2</sup>RUTH A. ROOSA

INSTRUCTORS: ROBERT L. BENSON, LOUISE ELLIOTT DALBY

LECTURERS: ANNETTE KAR BAXTER, CATHERINE S. CRARY, ADRIENNE HYTIER

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

- (a) Three fundamental courses, consisting of Courses 1-2, 3-4 and either ancient or medieval history;
- (b) Two courses in the category of specialized courses to be chosen with a view to specialization in the broad fields of either American or European history;
- (c) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is also required to write a senior essay which will be appraised by the department.

In view of the close relation of the disciplines that go under the name of social sciences, a student majoring in history is also required to elect 12 points distributed in two social sciences other than history.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, etc.

Honors in history: The department offers a program that will qualify students for honors in history. Under this program the student will take both seminars in her field of concentration and will be given a program of readings to be done during the summers of the sophomore and junior years. The student will be examined on these readings during the autumn of her senior year. A committee of the department will decide on the awarding of honors. Students interested in the honors program should consult the Executive Officer of the department.

Combined majors: With the work in history students may combine work in other departments to make up a group of correlated courses on some large sub-

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<sup>1</sup> Absent on leave, 1956-1957.

<sup>2</sup> Absent on leave, Winter Session.

# BARNARD COLLEGE

ject, such as ancient history and philosophy or art; modern history and international relations, economics or sociology; English history and literature or government; American history and economics; the history of thought and culture. See also Other Interdepartmental Offerings, page 36.

## INTRODUCTORY COURSES

### 1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. [16]

Winter Session: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Session: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS CARRIÉ, WILLIAMSON, and BURRELL, and MRS. ROOSA, MR. BENSON, DR. DALBY and MISS HYTIER.

Section I	M W F 9.	129 Milbank.	Section IV	M W F 12.	129 Milbank.
Section II	M W F 10.	129 Milbank.	Section V	M W F 1.	129 Milbank.
Section III	M W F 11.	129 Milbank.	Section VI	M W F 2.	129 Milbank.
Section VII T Th 9:10-10:25.			129 Milbank		

### 3-4. Introduction to the History of American Civilization. 6 points. [16]

Origins, background, development, and character of American civilization. The Thirteen English Colonies and the United States as part of the American hemisphere and of the world; development of American institutions and culture.

NOTE: Required of prospective majors in American Civilization during the freshman or sophomore year. PROFESSORS RAUCH, HARRINGTON, WILLIAMSON, and MRS. BAXTER.

Section I	M W F 10.	37 Milbank.	Section II	T Th 2, W 3.	215 Milbank.
Section III	Especially designed for students who may major in American Civilization.				T Th 2, W 3.
					309 Milbank.

### ★5-6. Ancient History: a survey of the ancient Mediterranean world. 6 points.

Winter Session: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Session: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world;" the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR OSTWALD and DR. BENARIO. M W F 9. 417 Business.

### 7, 8. Europe in the Middle Ages. 6 points. [10]

A survey of the history of Western Europe from late antiquity to the fourteenth century, with attention to political institutions and thought, ecclesiastical history,

intellectual movements, and the main social and economic developments. MR. BENSON. M W F 3. 129 Milbank.

## SPECIALIZED COURSES

**11, 12. England from the Norman Conquest to the Twentieth Century.** [1] 6 points.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginnings of collectivism. PROFESSOR BURRELL. M W F 9. 315 Milbank.

**15, 16. The Renaissance and the Reformation.** 6 points. [3]

Political, economic, social and cultural history of Western Europe. Winter Session: The age of the Renaissance (1300-1525). The cultural, artistic and intellectual developments, chiefly in Italy. Spring Session: The age of the Reformation (1500-1648). Religious changes and their effects upon thought and institutions. Prerequisite: Course 1-2. MR. BENSON. M W F 11. 405 Barnard.

**[★19, 20 (formerly ★87, 88). The History and Culture of Latin America.]** 6 points. MR. MORSE.

Not given in 1956-57.]

**25, 26. Europe since 1870.** 6 points. [9]

Internal evolution of the principal powers; Bismarck's Germany; imperialism and the rival alliances. First World War: the peace settlements; the League; the apparent liquidation of the war; new political systems; collapse of the nineteen-thirties. Second World War and its legacy. Prerequisite: Course 1-2. PROFESSOR CARRIÉ. T Th 2:10-3:25. 202 Milbank.

**27-28. The French Revolution and Napoleon.** 6 points. [2]

Background of the Revolution; the constitutional monarchy, the First Republic, the Directory and the Empire; changes in the social structure of the nation. Spread of the Revolution; growth of opposition and the rise of Nationalism. Heritage of the Revolution. Prerequisite: Course 1-2. DR. DALBY. M W F 10. 315 Milbank.

**[29, 30. The Modern Mediterranean World.]** 6 points. PROFESSOR CARRIÉ.

Not given in 1956-57.]

**[33, 34. Studies in American Colonial History.]** 4 or 6 points. PROFESSOR HARRINGTON.

Not given in 1956-57.]

## BARNARD COLLEGE

**35, 36. History of the British Empire.** 6 points. [5]

An historical survey from Tudor times to the Second World War, with special attention to those phases of the subject less likely to be familiar to American students. Preceding or parallel: Course 1-2. PROFESSOR WILLIAMSON. M W F 2. 335 Milbank.

**[37. History of Russia.]** 3 points. MRS. ROOSA.

Not given in 1956-57.]

**38. Russia in the Twentieth Century.** 3 points. [7]

Survey of political, economic and social currents in Russia between 1900 and 1917, followed by a detailed examination of Russia's development from the beginning of the Soviet period to the death of Stalin. Prerequisite: Course 1-2. MRS. ROOSA. T Th 10:35-11:50. 37 Milbank.

**[41-42. History of Science.]** 6 points. PROFESSOR CARRIÉ.

Not given in 1956-57.]

**[43. The History of Education in the United States.]** 3 points. PROFESSOR HARRINGTON.

Not given in 1956-57.]

**53, 54 (formerly 83, 84). History of United States Foreign Relations.** [13] 6 points.

American diplomacy from the Secret Committee on Correspondence to recent times, with attention to domestic and foreign influences on the qualities and actions of American leaders. Preceding or parallel: Course 3-4. PROFESSOR RAUCH. T Th 3 and conferences. 207 Milbank.

**[55, 56 (formerly 85, 86). Studies in Twentieth Century American History.]** 6 points. PROFESSOR RAUCH.

Not given in 1956-57.]

**[58. History of Religion in America (same as Religion 58).]** 3 points. PROFESSOR HARRINGTON.

Not given in 1956-57.]

## SEMINARS

**81, 82 (formerly 45, 46). Seminar in Historiography.** 8 points. [0]

Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism. Open to seniors on written permission of the instructor.

PROFESSOR BURRELL. W 4-6, and frequent conferences. 39 Milbank.

## HYGIENE

**83, 84** (formerly 47, 48). Seminar in American Civilization. 8 points. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion. Open to senior majors in American Civilization on written permission of the instructor. PROFESSOR RAUCH. W 4-6. 106 Barnard.

**85, 86** (formerly 49, 50). Seminar in European Civilization. 8 points. [0]

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion. Open to seniors on written permission of the instructor. PROFESSOR CARRIÉ. T 4-6. 207 Milbank.

**87, 88** (formerly 51, 52). Seminar in the Literature of American History. [0] 8 points.

Extensive reading and discussion of the work of classic figures in American historiography, such as Bancroft, Parkman, Prescott, Hildreth, and of significant monographic literature and major writings of more recent times. Open to seniors on written permission of the instructor. PROFESSOR WILLIAMSON. W 4-6 and frequent conferences. 13 Milbank.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

## HYGIENE

MARJORY J. NELSON, M.D., College Physician

**Hygiene.** (Spring Session) 2 points.

[7]

A study of the principles of physical and mental health.

This course is required of all students who have not passed the exemption test. DR. NELSON. T Th 10. 101 Barnard.

# ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA BOVÉ (Executive Officer)

ASSISTANT PROFESSOR: ELIZABETH CZONICZER

A major in Italian is expected to attain such knowledge of the language as to be able to understand well and interpret literary works in Italian and to write freely and correctly about them.

The major examination consists of four hours of written work and an oral examination of two hours.

## LANGUAGE COURSES

**1-2. Introductory Full-Year Course.** 6 (for seniors) or 8 points. [17]

Grammar, easy reading, conversation. This course may not be taken parallel to Spanish 1-2. Seniors with adequate linguistic background may take this course for 6 points. PROFESSORS BOVÉ and CZONICZER. Section I M T W Th F 9. 311 Barnard. Section II M W F 1, T Th 9. 207 Milbank.

**3, 4, Intermediate Course.** 6 points. [2]

Introduction to Italian literature. Readings of the main Italian authors. Translations, compositions and oral reports. Prerequisite: Course 1-2 or the equivalent. Conducted in Italian. PROFESSOR CZONICZER. M W F 10. 13 Milbank.

**5, 6. Italian Conversation.** 2 points. [0]

No credit unless taken in connection with another Italian course. PROFESSOR CZONICZER. Section I T 11. 209 Milbank. Section II Th 2. 29 Milbank.

**7, 8. Composition and Advanced Translation.** 2 points.

For Italian majors only. PROFESSOR BOVÉ. Hours to be arranged.

## LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C- or higher is obtained.

**§13. Dante: La Divina Commedia.** 3 or 4 points. [7]

Prerequisite: Course 3, 4 or 1-2 and a special examination. Conducted in Italian. PROFESSOR BOVÉ. T Th 10:35-11:50. 212 Milbank.

## ITALIAN

**§14. Petrarca and Boccaccio.** 3 or 4 points. [7]

Conducted in Italian. PROFESSOR BOVÉ. T Th 10:35-11:50. 212 Milbank.

**15, 16. The Italian Novel.** 4 or 6 points. [4]

The Italian novel with reference to the novel in other European countries. Conducted in English. PROFESSOR CZONICZER. M W 1. 406 Barnard.

**§19. Studies in Italian Poetry.** 2 or 3 points. [2]

Origins—Renaissance, romantic and contemporary poetry. Conducted in Italian. PROFESSOR BOVÉ. M W 10.

**§20. Italian Drama.** 2 or 3 points. [2]

Conducted in Italian. PROFESSOR BOVÉ. M W 10.

**21, 22. Masterpieces of Italian Thought from 1300 to 1700.** 4 or 6 points. [1]

Designed for students not specializing in Italian. Some great Italian authors and their contribution to western civilizations. Among the authors to be discussed in lectures and read in English translation are: Dante, Petrarca, Boccaccio, Lorenzo il Magnifico, Machiavelli, Guicciardini, Sarpi, Baldassar Castiglione, Leonardo da Vinci, Ariosto, Tasso, Campanella, Giordano Bruno, Giambattista Vico. PROFESSOR BOVÉ. M W 9. 13 Milbank.

**[27, 28. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries.** 6 points. PROFESSOR BOVÉ and DR. ULANOV.

Not given in 1956-57.]

**★195, 196. Readings in Italian Literature.** 6 points.

Intensive analysis of selected Italian masterpieces. Conducted in English. PROFESSOR BOVÉ. Th 5-7. 401 Hamilton.

**LATIN (See GREEK AND LATIN)**

**LINGUISTICS (See ANTHROPOLOGY)**

# MATHEMATICS

PROFESSOR: EDGAR R. LORCH (Executive Officer)

ASSISTANT PROFESSOR: JOANNE ELLIOTT

INSTRUCTOR: DOUGLAS G. DICKSON

LECTURER: SALLY I. LIPSEY

The department is offering a new sequence in analytic geometry and calculus. The courses of the new sequence are numbered 30; 31-32; 33 and are called Calculus I, II, III and IV. The first two of these, R30, 30 and R31 are given this year. At the same time, to accommodate students who started under the old program, Courses 31-32, R32, 33 and R33 will also be given this year.

A major in mathematics. A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Faculty of Pure Science.

Other fields: Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) An oral examination administered by the department.

## 1 (or R1). Trigonometry. 3 points.

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations, graphs of the trigonometric functions, complex numbers, De Moivre's theorem. Students who have had a standard course in trigonometry should take Course 30. PROFESSOR ELLIOTT and MR. DICKSON.

Winter Session (1): M W F 9. 301 Barnard. [1]

Spring Session (R1): M W F 10. 301 Barnard. [2].

## R6. Algebra and the Theory of Equations. 3 points.

[6]

The complex number system, theory of equations, determinants, mathematical induction, permutations and combinations, probability. Recommended for those students in the biological and social sciences who can devote only a limited amount of time to mathematical studies. Prerequisite: Algebra through quadratic equations. MRS. LIPSEY. T Th 9:10-10:25. 207 Milbank.

## 7-8. Mathematical Analysis. 6 points.

[12]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Topics from

## MATHEMATICS

algebra, trigonometry, analytic geometry, differential and integral calculus. Not recommended for students of the physical sciences and not open to students who have had trigonometry or who are planning to major in mathematics. PROFESSOR ELLIOTT and MR. DICKSON. Section I M W F 2. 215 Milbank. Section II M W F 3. 4 Milbank.

**30 (or R30). Calculus I.** 3 points.

[12]

Topics covered will include: coordinates in the plane, loci and their equations, straight lines, conic sections, translations and rotations; limits and derivatives; differentiation of algebraic functions with applications to tangents, maxima and minima, curve tracing, and rectilinear motion. Prerequisite: Course 1 or its equivalent. PROFESSORS LORCH, ELLIOTT and MRS. LIPSEY and MR. DICKSON. Winter Session (R30): Section I M W F 9. 309 Milbank. Section II M W F 1. 321 Milbank.

Spring Session (30): Section I M W F 9. 301 Barnard. Section II T Th 9:10-10:25. 207 Milbank.

**R31. Calculus II.** 3 points.

[12]

Topics covered will include: polar coordinates; differentiation of logarithmic and trigonometric functions and their inverses; differentials; indeterminate forms; introduction to integration and application of the integral to area, volume, and arc length. Prerequisite: Course 30. PROFESSOR LORCH and MR. DICKSON. Section I M W F 9. 309 Milbank. Section II M W F 1. 321 Milbank.

**31-32. Calculus.** 6 points.

[8]

Differential and integral calculus. Winter Session: Derivatives and their applications. Tangents, maxima and minima, curve tracing, curvature, rectilinear and curvilinear motion, law of the mean. Spring Session: Integration. Applications to geometry and physics; areas, volumes, arc length, centroids, mass, fluid pressure, infinite series of constant terms, power series. Prerequisite: Course 22. MRS. LIPSEY. M 3 and T Th 11. 309 Milbank.

**R32. Calculus.** 3 points.

[4]

Equivalent of 32; given in the Winter Session. Prerequisite: Course 31. MR. DICKSON. M W F 1. 319 Milbank.

**33 (or R33). Calculus.** 3 points.

[2]

Continuation of study of infinite series, Taylor's series, Taylor's formula with the remainder; partial derivatives and their applications to curves and surfaces in space; multiple integrals and their applications to geometry and physics; an introduction to vectors and vector notation. Prerequisite: Course 31-32. MR. DICKSON. Winter Session (33): M W F 10. 301 Barnard. Spring Session (R33): M W F 10. 301 Barnard.

**[43. Theory of Space and Time.]** 3 points. PROFESSOR LORCH.

Not given in 1956-57.]

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**[48. Theory of Numbers.** 3 points. **PROFESSOR ELLIOTT.**

Not given in 1956-57.]

**54. Advanced Calculus.** 3 points.

[4]

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions. Prerequisite: Course 33. **PROFESSOR ELLIOTT.** M W F 1. 319 Milbank.

**[57. Higher Algebra.** 3 points.

Not given in 1956-57.]

**★101. Introduction to Number Theory.** 3 points.

Congruences, structure of residue class groups, quadratic reciprocity, Dirichlet's prime number theorem, and quadratic number fields. Prerequisite: Course 32. **DR. ABHYANKAR.** T Th 1:20-2:35. 303 Hamilton.

**★102 (or G.S. R102). Introduction to Algebra.** 3 points.

Determinants and matrices, linear transformations; quadratic forms; polynomials. Prerequisite: Course 32. **PROFESSORS LEVI and MURRAY.** Winter Session: **(G.S. R102)** M Th 8:25-9:40 p.m. 202 Hamilton. Spring Session: **(102)** M W F 9. 202 Hamilton.

**★104. Differential Equations.** 3 points.

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Course 33. **PROFESSOR STRODT.** M W 11-12:20. 202 Hamilton.

**★105. Elements of the Theory of Functions of Complex Variables.** 3 points.

For those who need a working knowledge of the theory of functions of complex variables as an instrument for the physical sciences and engineering. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces. Prerequisite: Course 33. **PROFESSOR MURRAY.** M W F 9. 212 Hamilton.

**★107. Probability.** 3 points.

The classical theory of probability is developed in a rigorous fashion. The topics treated include: the theorems of Tchebycheff, Bernoulli, and Poisson; Stirling's formula; the probability integral; generating functions; the normal law of error. Preceding or parallel: Course 33. **PROFESSOR ELLIOTT.** M W F 11. 303 Hamilton.

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**★108. Mathematical Statistics.** 3 points.

Introduction to mathematical statistics. Prerequisite: Course 107. PROFESSOR ROBBINS. T Th 1:20-2:35.

**★111 (or R111). Fundamental Concepts of Mathematics.** 3 points.

Topics include: sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal and ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Course 33. PROFESSORS KOLCHIN and STRODT. Winter Session (111): M W 1:20-2:35. 203 Hamilton. Spring Session (R111): M W 1:20-2:35. 304 Hamilton.

**★G.S. R115. Differential Geometry.** 3 points.

The classical differential theory of curves and surfaces; intrinsic geometry on a surface; theorems in the large. Prerequisite: Course 33. PROFESSOR LEVI. M Th 8:25-9:40 p.m.

# MUSIC

PROFESSOR: OTTO LUENING

ASSOCIATE PROFESSOR: CAROLYN P. LOUGHBOROUGH (Chairman for Barnard)

INSTRUCTOR: ALICE LEVINE MITCHELL

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: <sup>1</sup>WILLIAM J. MITCHELL, DOUGLAS STUART MOORE (Executive Officer)

ASSISTANT PROFESSORS: JACK BEESON, HOWARD SHANET

INSTRUCTORS: HUBERT DORIS, EDWARD ARTHUR LIPPMAN, F. MARK SIEBERT

LECTURER: RUDOLPH THOMAS

TEACHING STAFF IN APPLIED MUSIC:

EVERETT ANDERSON. Voice

ALTA HILL. Piano

FRANK M. SHERIDAN. Piano

F. MARK SIEBERT. University Chorus.

HUNTER WILEY. University Band

SEARLE WRIGHT. Organ; Chapel Choir.

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 3 and R31 in the freshman year followed by Course R32 in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program. A student whose preparation has been inadequate will be advised to take Course 1-2 in the freshman year and Course 31-32 in the sophomore year.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Courses 3 or 1-2) in literature, history, and in theory. Ordinarily Courses 23-24, 31-32, 33-34, 35, 41-42, and 73-74 are required. Applied music courses (a maximum of 12 points) may be counted toward the degree but are not required. All music majors are required to participate in activities such as the chorus or orchestra.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work must know two foreign languages, including German. Courses in fine arts, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

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<sup>1</sup> Absent on leave, Spring Session.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the departmental office, 601 Journalism, during registration and the first two days of classes.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

**Collegium Musicum.** The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces of vocal and instrumental music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in performances. Students in other departments are also welcome. Emphasis is placed upon a variety of compositions and not on finished performance. The literature to be used embraces music from medieval times to the present day.

## LITERATURE AND HISTORY

### 1-2. An Introduction to Music. 4 points.

[9]

A study of the elements of musical structure designed to form intelligent listening habits. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities. PROFESSOR LUENING (Music 1) and MRS. MITCHELL (Music 2). T Th 2:10-3:25. 400 Horace Mann.

### 3. A Survey of Musical Styles. 3 points.

[3]

Designed as a substitute for Course 1-2 and may be elected by students who have had some previous musical training. The ability to read music is required. MRS. MITCHELL. M W F 11. 609 Journalism.

### ★8. Contemporary Music. 2 points.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. Course 8 in conjunction with Course 15 will satisfy the non-literature requirement in the humanities. PROFESSOR MOORE. T Th 11. 603 Journalism.

### ★9. The Heritage of Music. 2 points.

An inquiry into the various forms of musical expression, designed for the non-specializing student as a continuation of Course 1-2. Selected compositions from the Renaissance to the present day. Prerequisite: Course 1-2 or the equivalent. PROFESSOR MOORE. T Th 11. 603 Journalism.

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## 14. Chamber Music. 3 points.

[9]

A survey of the significant literature of chamber music. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LUENING. T 2, Th 1-3. 609 Journalism.

## 15. The Symphony. 3 points.

[5]

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Course 15 in conjunction with Course 8 will satisfy the non-literature requirement in the humanities. PROFESSOR LOUGHBOROUGH. M W 2:10-3:25. 603 Journalism.

## 16. The Opera. 3 points.

[5]

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LOUGHBOROUGH. M W 2:10-3:25. 603 Journalism.

## ★23-24. History of Music. 6 points.

A survey of the history of music from the beginning of the Christian era to the present. Prerequisite: Course 31-32 or the equivalent. DR. LIPPMAN. M W F 9. 608 Journalism.

## 41-42. Historical and Analytical Studies in the Literature of Music. 4 points.

[0]

Required seminar for senior majors to supplement and coordinate previous studies. PROFESSOR LOUGHBOROUGH and MRS. MITCHELL. Th 3-5. 609 Journalism.

## ★107. Bach. 2 points.

Study by analysis, discussion and performance of the chief works of Johann Sebastian Bach. Prerequisite: Course 31-32 or the equivalent. PROFESSOR MOORE. T Th 2. 609 Journalism.

## [★121-122. History of Music from 1000 to 1600. 4 points. PROFESSOR HERTZMANN.]

Not given in 1956-57.]

## ★123-124. History of Music from 1600-1900. 4 points.

Discussion of the main stylistic currents from the baroque through the romantic era. Prerequisite: Written permission of the instructor. PROFESSOR LANG. Th 1-3. 703 Journalism.

## ★141. Psychology of Music. 2 points.

Analysis of tonal sensations and their basis in acoustics and physiology; investigation of the complex activities of composition, performance, and listening. DR. LIPPMAN. W 3:30-5:30. 703 Journalism.

**★142. Philosophy of Music.** 2 points.

An examination of outstanding conceptions of the nature of music; the role of music in society, its relation to the other arts, and its status as an intellectual activity. DR. LIPPMAN. W 3:30-5:30. 703 Journalism.

**THEORY****31-32. Harmony.** 6 points.

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Prerequisite: Written permission of the instructor.

Section I PROFESSOR LOUGHBOROUGH. M W F 11. 608 Journalism. [3]

Section II MRS. MITCHELL. M W F 1. 408 Barnard. [4]

**★R31-R32. Harmony.** 6 points.

The subject matter of 31-32, starting in the Spring Session.

Winter Session (R32). MR. DORIS. T 9-11. 703 Journalism. Th 9. 609 Journalism.

Spring Session (R31). MRS. MITCHELL. M W F 11. 609 Journalism.

**★R32a. Harmony at the Keyboard.** 1 point.

A laboratory course featuring the subject matter of R32 as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course 31. Preceding or parallel: Course 32. MR. DORIS. Th 10. 606 Journalism.

**★R33. Advanced Harmony.** 3 points.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course 31-32 or the equivalent. Parallel, advised but not required: Course 35-36. MR. DORIS. T 9-11, Th 9. 603 Journalism.

**★R33a. Harmony at the Keyboard.** 1 point.

A laboratory course featuring the subject matter of R33 as applied to the keyboard. Prerequisite: Course 31-32. Preceding or parallel: Course R33. MR. DORIS. Th 10. 606 Journalism.

**★R34. Analysis.** 3 points.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course R33. Recommended, but not required: Course 35-36. PROFESSOR MITCHELL and MR. DORIS. T 9-11, Th 9. 603 Journalism.

## BARNARD COLLEGE

### ★35-36. Counterpoint. 6 points.

A study of the five species in two, three, and four parts, strict style. During the spring session students analyze and compose polyphonic pieces in various styles. Prerequisite: Course 31-32 or the equivalent. MR. SIEBERT. M W F 10. 608 Journalism.

### 39-40. Composition. 4 points.

[0]

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course R33 or written permission of the instructor. PROFESSOR LUENING. T 3-5. 604 Journalism.

### ★73-74. Orchestration, Conducting, and Score Reading. 6 points.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course 31-32 or the equivalent and written permission of the instructor. PROFESSOR SHANET. W 2, F 2-4. 609 Journalism.

### ★131-132. Advanced Composition. 4 points.

Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices. Prerequisite: Course 39-40 or the equivalent and written permission of the instructor. PROFESSOR BEESON. F 10-12. 703 Journalism.

## APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count toward the degree. A maximum of 12 points may be so counted. No student may register for a course in vocal, organ, or piano instruction without consultation with the department as early in the registration period as possible. 601 Journalism. Hours to be arranged with the instructors.

### 79, 80. Vocal Instruction. 2 points. (See Note above.)

Private lessons in voice production and in interpretation. Coaching and repertory. Special fee, \$100 each session; no refunds. MR. ANDERSON.

### 83, 84. Organ Instruction. 2 points. (See Note above.)

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the Columbia Music Department about registration and fees. MR. WRIGHT.

**91, 92. Piano Instruction for Beginners.** 2 points. (See Note above.)

Private lessons in the technique of the instrument and in interpretation. Special fee, \$100 each session. Miss HILL.

**93, 94. Piano Instruction for Advanced Students.** 2 points. (See Note above.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertory. Special fee, \$160 each session. MR. SHERIDAN.

## PERFORMANCE ACTIVITIES

### **Columbia University Orchestra.**

In addition to regular rehearsals for public concerts, there are reading and workshop sessions in which compositions will be studied with no eye toward public performance.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications. A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers. PROFESSOR SHANET. Rehearsals: M W 5:30-7:30 p.m. McMillin Theater.

### **Columbia University Chorus.**

A singing group, the purpose of which is the study and rehearsal of serious choral works from all periods of musical literature. Performances will be given by the organization itself or in conjunction with other campus musical groups. All members of the student body and faculty of the University are eligible to apply for membership. MR. SIEBERT. M Th 7:30-9:30 p.m. 408 Barnard.

Auditions in 608 Journalism: September 19-21, 12:30-2; September 24-25, 12:30-1:30 and 7-9 p.m.; September 26-27, 12:30-1:30.

**Chapel Choir:** The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services. The Choir also gives several special Sunday evening musical services. Other functions include choral performances at University Convocations, appearances at the Cathedral of St. John the Divine, etc. Applicants must have ability to sight-read music. All men and women students of the University are eligible. Regular members of the Choir will receive \$150 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel.

Auditions will be held in the Chapel Crypt September 21, 24, 25, from 10-12, 2-5. Rehearsals: Monday, Wednesday and Friday, 5-6:15; Sunday, 9:45 a.m., in the Chapel Crypt.

## **BARNARD COLLEGE**

### **Chamber Music Society**

A voluntary association of performers, both instrumentalists and singers, which meets regularly at times and places to be announced, for the purpose of exploring the literature of music and preparing programs for various campus functions.

### **University Band.**

The Concert Band begins rehearsals November 1 with membership open to all men and women in Columbia University. Two concerts are given in McMillin Theater and five weekly afternoon concerts are presented on the campus in the spring.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. **MR. WILEY.** **T Th 4-6 p.m.** **113 Low Library.**

# PHILOSOPHY

ASSOCIATE PROFESSOR: JOSEPH GERARD BRENNAN (Executive Officer)

ASSISTANT PROFESSORS: JEAN A. POTTER, H. STANDISH THAYER

LECTURER: JUDITH JARVIS

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSISTANT PROFESSOR: JOSEPH L. BLAU

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, the nature of reality, and the meaning of moral, aesthetic, and religious values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalents: 1; 5; 22; 61-62, and in the senior year, the seminar, 65-66. Passing of a six-hour written major examination at the end of the senior year is required.

## 1 (or R1). Introduction to Philosophy. 3 points.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value.

Section I PROFESSOR BRENNAN. M W F 10. 408 Barnard. [2]

Section II PROFESSOR THAYER. M W F 11. 309 Milbank. [3]

Section III PROFESSOR POTTER. M W F 2. 202 Milbank. [5]

Section IV MISS JARVIS. T Th 9:10-10:25. 37 Milbank. [6]

## 4. Metaphysics. 3 points. [7]

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments. Prerequisite: Course 1 or the equivalent. PROFESSOR POTTER. T Th 10:35-11:50. 29 Milbank.

## 5. Logic. 3 points. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1. 37 Milbank.

## 6. Analytic Philosophy. 3 points. [4]

Analytic philosophy will be distinguished from "synthetic" philosophy, special attention being paid to the writings of G. E. Moore. Various contemporary British

# BARNARD COLLEGE

and American analyses in metaphysics, ethics, and aesthetics will be examined, and the possibility of a purely analytic philosophy questioned. Prerequisite: Course 1 or 5 or written permission of the instructor. MISS JARVIS. M W F 2. 321 Milbank.

## 8. Philosophy of Science. 3 points.

[3]

A study of scientific method in the natural and social sciences. Fundamental procedures, such as definition, measurement, and verification will be examined, as well as the function and interpretation of hypothesis, law and theory. Prerequisite: Course 1. PROFESSOR THAYER. M W F 11. 29 Milbank.

## 9. The Metaphysics of Theism. 3 points.

[7]

A systematic analysis of concepts relating to the existence and nature of God. Prerequisite: Course 1 or the equivalent. PROFESSOR POTTER. T Th 10:35-11:50. 29 Milbank.

## 22. Ethics. 3 points.

[4]

Man, values, and evaluation. Discussion of various conceptions of the good life, including Aristotelian, Epicurean, Stoic, Kantian, Naturalistic and Positivistic ethics. A study of central issues involved in evaluation: natural and conventional standards, evil, power and values, freedom and determinism. Prerequisite: Course 1. PROFESSOR THAYER. M W F 1. 37 Milbank.

## 41. Philosophy of Art. 3 points.

[5]

Study and discussion of a number of ancient and modern interpretations of the nature of art. An attempt will be made to formulate and apply the concepts of truth, beauty, and meaning to the objects of aesthetic experience. Open to juniors and seniors, and to qualified sophomores on written permission of the department. PROFESSOR THAYER. M W F 2. 321 Milbank.

## 43. Philosophical Implications of the Modern Novel. 3 points.

[3]

The following themes will be developed: the relation of man to nature and to art; the role played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Kafka, Gide, Malraux, F. M. Ford, and other important novelists of the twentieth century will be discussed. Open to juniors and seniors and to qualified sophomores on written permission of the department. PROFESSOR BRENNAN. M W F 11. 301 Barnard.

## 61-62. History of Philosophy. 6 points.

[2]

Winter Session: Greek philosophy from Thales to Plotinus. Spring Session: Medieval and modern philosophy from Augustine to Hegel. Open to juniors and seniors, and to qualified sophomores on written permission of the department. PROFESSOR POTTER. M W F 10. 311 Milbank.

**63, 64. Readings in Philosophy.** 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. Miss JARVIS, or the instructor in the course to which the extra hours of reading are attached. Hour to be arranged for individual or group conferences.

**65-66. Senior Seminar.** 4 points. [0]

Required of all majors in the senior year. PROFESSOR POTTER. T 3-5. 29 Milbank.

**[67. Seventeenth and Eighteenth Century British Philosophy and Its Influence.]** 3 points. PROFESSOR THAYER.

Not given in 1956-57.]

**72. American Philosophy.** 3 points. [9]

Major trends and issues from the colonial period to the present, studied through the works of the outstanding philosophers. Prerequisite: Course 1 or 61-62, except on written permission of the instructor. PROFESSOR BLAU. T Th 2:10-3:25. 4 Milbank.

**[75. Seventeenth Century Rationalism.]** 3 points. PROFESSOR POTTER.

Not given in 1956-57.]

**76. Twentieth Century Philosophy.** 3 points. [6]

A study of philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Russell, Ayer, representative Marxist philosophers, and critical naturalists. Prerequisite: Course 1 or 61-62. PROFESSOR BRENNAN. T Th 9:10-10:25. 29 Milbank.

**81, 82. The Philosophy of Religion (same as Religion 19, 20).** 6 points. [9]

Winter Session: Philosophic interpretations of religion in the West, illustrated by Aquinas, Spinoza, Hume, etc. Spring Session: Contemporary problems: religion, philosophy and culture. The nature of man and history. The need of symbols and language. Open to all except freshmen. Prerequisite: Course 1. Religion 4 and 25 are recommended as parallel courses. PROFESSOR HUTCHISON. T Th 2. and a conference hour. 703 Hamilton.

**84. The Philosophy of Education.** 3 points. [5]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 2. 37 Milbank.

# PHYSICAL EDUCATION

ASSOCIATE PROFESSORS: MARGARET HOLLAND (Executive Officer), MARION STRENG

ASSISTANT PROFESSORS: <sup>1</sup>LELIA M. FINAN, <sup>2</sup>FERN YATES

ASSOCIATE: JEANNETTE SCHLOTTMANN

INSTRUCTOR: EDITH D. GENTRY

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity and recreation.

The Faculty requires physical education during the freshman, sophomore and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

NOTE: A failure in a physical education course taken at Barnard automatically places a student on probation (1) if the failing grade is not removed within one term, or (2) if at the beginning of her senior year, there is a failure in physical education on her record.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theater, students who major in English and specialize in Drama are urged to take courses in this area.

**Medical examinations and posture analysis:** Three complete medical examinations by the College Physician are required of all students during the four years. Two complete posture examinations are required by the Department of Physical Education by the end of the sophomore year. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

**Freshman requirement:** Three periods per week on different days. During the first semester, two of these periods are prescribed body mechanics and rhythmic fundamentals. The third period is to be elected. Body mechanics schedule during the month of October: Section I M W 1:10-2:25. Section II M W 2:35-3:50. Section III T Th 9:10-10:25. Section IV T Th 10:35-11:50. Rhythmic fundamentals schedule, November through January: Sections will be subdivided into A and B, each division reporting for half the period.

**Sophomore and junior requirement:** Two hours per week on different days.

**Program of activities:** Two seasons each semester: Fall-winter; winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the beginning of each session.

<sup>1</sup> Absent on leave, Winter Session.

<sup>2</sup> Absent on leave, Spring Session.

## *PHYSICAL EDUCATION*

Fall and Spring: archery; body mechanics; correctives; golf; modern dance (advanced); riding (special fee—see Handbook); softball; swimming; tennis; volley ball; water ballet.

Winter each session: archery (indoor); badminton; co-ed badminton; basketball; basketball officiating; bowling (special fee—see Handbook); correctives—relaxation; fencing; folk-square dance; co-ed folk-square dance; fundamentals; golf (indoor); Greek Games, athletics and/or dance; modern dance; Red Cross life-saving; riding; swimming and diving; volley ball; water ballet and water safety.

In all of these activities students are advised to register according to their skill level, i.e., beginning, intermediate or advanced.

**Prescribed costume:** Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$15. For further information see Handbook.

# PHYSICS

PROFESSOR: HENRY A. BOORSE (Executive Officer)

INSTRUCTOR: GERHARD E. FISCHER

LECTURER: CLAIRE M. DELAGE

The demand for well-trained women in the field of physics continues to exceed the supply. Laboratories operated by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, and by many industrial firms offer excellent opportunities at various levels of training. Medical physics constitutes an important and growing field of specialization while teaching at the high school or college level continues to offer attractive positions for those more interested in the scholarly tradition. For the student interested in scientific ideas and with some facility in mathematics, physics offers many opportunities for a stimulating and rewarding career.

A student majoring in physics should begin with Courses 3-4 and 7, 8; a student with superior preparation may, on approval of the department, substitute Course 6 for 3-4. Courses to complete the major will be arranged as far as possible in accordance with the student's interest and preparation.

Other fields: Mathematics: an adequate background in mathematics should be acquired as early as possible. Calculus is a corequisite or prerequisite for Physics 6 and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

The major examination consists of the Graduate Record Examination in physics and one hour of conference.

## 3-4. General Physics. 9 points.

[3]

Winter Session: Mechanics, Heat and Sound. Spring Session: Optics and Electricity. Preceding or parallel: mathematics through trigonometry. PROFESSOR BOORSE, DR. FISCHER and MISS DELAGE. Lec. M W F 11. Lab. (2 hours) M 2-4, T 9-11 and 2-4, Th 2-4. A third hour following the two-hour laboratory period is devoted to the discussion of physical laws and their application. 233 Milbank.

## 3a-4a. General Physics. 6 or 7 points.

[3]

Lectures identical with those of Course 3-4. No laboratory work. Discussion-hour optional but advised. To follow or parallel a laboratory science. PROFESSOR BOORSE, DR. FISCHER and MISS DELAGE. M W F 11. 233 Milbank.

NOTE: The following courses require the permission of PROFESSOR BOORSE.

## R5. Modern Physics. 3 points.

[5]

An elementary introduction to modern atomic and nuclear physics. Intended for students who have completed general physics. Prerequisite: Course 3-4. PROFESSOR BOORSE. M W F 2. 233 Milbank.

**★6. General Physics, I. Mechanics and Heat.** 4 points.

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: ★Mathematics 21a or equivalent; parallel, ★Mathematics 31a or equivalent. No credit if preceded by Course 3-4. PROFESSOR SACHS and DRs. CHRETIEN, FISCHER, JAVAN, MARGOLIS, OREAR, and REDMOND and assistants. Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged. 301 Pupin.

**★7. General Physics, II. Electricity and Magnetism.** 3 points.

Electrostatics and properties of dielectrics; direct currents and elementary consideration of transients; electromagnetism and properties of ferromagnetic materials; introduction to alternating currents. Prerequisite: Course 3-4 or ★6. Parallel: Course ★9 and ★Mathematics 32a or equivalent. PROFESSOR MITCHELL and DRs. CHRETIEN, FISCHER, JAVAN, MARGOLIS, OREAR, and REDMOND and assistants. Lec. M W F 9. 301 Pupin.

**★8. General Physics, III. Light and Atomic Physics.** 3 points.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course ★7. Parallel: Course ★10. PROFESSOR LEDERMAN and DRs. CHRETIEN, FISCHER, JAVAN, MARGOLIS, OREAR, and REDMOND and assistants. Lec. T Th 10, 301 Pupin; S 9, 329 Pupin.

**★9-10. Physical Laboratory.** 3 points.

Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics. Prerequisite: Course 3-4 or ★6. Parallel: Course ★7-8. PROFESSOR LEDERMAN and DRs. CHRETIEN, FISCHER, JAVAN, MARGOLIS, OREAR, and REDMOND and assistants. Three consecutive hours to be arranged after the first lecture in Course ★7-8.

**★59. Light.** 3 points.

A course in general optics. The first part is devoted to geometrical optics; later, topics in physical optics are discussed and illustrated. Prerequisite: General physics and integral calculus. PROFESSOR TOWNES. Lec. M Th 2:30-4. 301 Pupin.

**★63-64. Mechanics.** 6 points.

An introduction to analytical mechanics. The course deals with statics, kinematics, and kinetics of the particle and rigid body and certain problems of elastic bodies. Prerequisite: General physics and integral calculus. PROFESSOR VON NARDROFF. M W F 9. 428 Pupin.

**★67-68. Electromagnetism and Electronics.** 6 points.

Electricity and magnetism with emphasis on lumped parameter circuits. Topics discussed will include capacitance and inductance, A.C. circuits, filter networks,

## BARNARD COLLEGE

and transmission lines. Second part of course will deal with motion of charged particles in electric and magnetic fields and applications, the properties of vacuum tubes and their application, the design of amplifiers, oscillators, and special devices. Prerequisite: Any intermediate course in electricity and magnetism (Course ★7 is equivalent) and differential and integral calculus. **PROFESSOR BOOTH.** T Th S 9. 428 Pupin.

### ★81-82. Intermediate Laboratory Work. 4 or 8 points.

Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics and nuclear physics. An individual program of experiments will be arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. One four-hour laboratory period weekly for each 2 points to be arranged in consultation with instructor. **PROFESSOR HAYNER.** T 1:10-5; W 1:10-5; Th 6:30-10:30 p.m.; F 1:10-5; S 10-2. Ernest Kempton Adams Precision Laboratory, 602-636 Pupin.

## GRADUATE COURSES

For further information consult the Announcement of the Faculty of Pure Science.

### ★113. Thermodynamics. 3 points.

**PROFESSOR BOORSE.** T F 2:10-3:30. 329 Pupin.

### ★115. Atomic Physics. 3 points.

**PROFESSOR HARRIS.** M W F 10. 420 Pupin.

### ★116. Elementary Quantum Mechanics. 3 points.

**PROFESSOR FOLEY.** M W F 10. 420 Pupin.

### ★119-120. Mathematical Methods in Physics. 9 points.

**PROFESSOR FOLEY.** M W F 9. 329 Pupin.

### ★127-128. Introduction to Theoretical Physics. 4 points

**DR. REDMOND.** W 6:10-8 p.m. 428 Pupin.

### ★140 or R140. Nuclear Physics. 3 points.

**PROFESSOR WU** (Spring Session). **PROFESSOR HAVENS** (Winter Session). T Th 11-12:20. 420 Pupin.

# PSYCHOLOGY

PROFESSOR: RICHARD PARDEE YOUTZ (Executive Officer)

ASSISTANT PROFESSORS: WILLIAM W. CUMMING, TRACY S. KENDLER, ROSEMARY PIERREL

INSTRUCTOR: DONALD A. COOK

ASSISTANTS: SHERRY BLUMENTHAL, GEORGE GOUREVITCH, MARGARET L. STREHAN, JANE WEISS

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSISTANT PROFESSOR: ROBERT J. WILLIAMS

The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

In the work of the major, several kinds of interests are recognized. The groupings of courses given below are arranged in accordance with these interests; the student should select one of the plans A, B, C or D. In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in the graduate school.

## A. General psychology major.

A student completing this major will have a good general background for activities in psychology or related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. This major may be completed by fulfilling the following requirements:

Psychology: Courses 1, 7-8; 9, 11, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: One course in philosophy (3 points), a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

Suggested groupings of additional psychology courses: 16, 26, 27, 28, 37 make a good grouping for those interested in work with children. Courses 24, 26, 37 meet the interests of students in the social sciences, social work, business and practical affairs.

## B. Psychology major with emphasis on clinical psychopathology.

This new major, started in 1955, was developed by the Payne Whitney Clinic and the Psychology Department. It is designed to improve the student's understanding of the work on psychiatric hospital wards. With proper preparation this leads to the position, Clinical Psychopathological Assistant, in psychiatric hospitals. In this new position the duties would include group rehabilitation activities with patients, clinical reports, and research observations. The following

## BARNARD COLLEGE

courses are required: Courses 1, 7-8, 9, 11, 21, 37, and in the senior year, 41-42.

Other fields: One course in philosophy (3 points), a laboratory course in zoology, physics, or chemistry (8 points). (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

### C. Psychology major with emphasis on business and personnel.

A student interested in going directly into business or the personnel field or in taking further training in this area may complete a major by fulfilling the following requirements:

Courses 1, 7-8; 9, 11, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: Economics 1-2, 17, 18, and either 19 or 20.

### D. Psychology major in preparation for graduate study.

The following major is recommended for students who plan to do graduate work in psychology or clinical psychology. (This does not apply to students planning to enter schools of social work, schools of education, or other areas related to, but not directly in, graduate departments of psychology.)

Courses 1, 7-8; 9, 11, 57, 108, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: Full-year laboratory courses in two of the following—zoology (or biology), physics, or chemistry; mathematics through analytic geometry; one course in philosophy (3 points). One semester of calculus is strongly recommended.

**The major examination:** This consists of sections on: (1) general information and integration (three hours); (2) experimental designs and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

#### 1 (or R1). Introduction to Psychology. 3 points.

[11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, and reading in special fields. This course is a prerequisite for all other courses in psychology. PROFESSORS CUMMING, KENDLER and PIERREL, MR. COOK and \_\_\_\_\_.

Winter Session (1): Section I M W F 9. 215 Milbank. Section II M W F 10. 4 Milbank. Section III M W F 11. 203 Milbank. Section IV T Th 10:35-11:50. 319 Milbank.

Spring Session (R1): Section I M W F 9. 215 Milbank. Section II M W F 10. 4 Milbank. Section III M W F 11. 203 Milbank. Section IV T Th 10:35-11:50. 319 Milbank. Section V T Th 2:10-3:35. 204 Milbank.

## PSYCHOLOGY

### 7-8. Experimental Psychology. 8 points.

[11]

The chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology. Prerequisite: Course 1 or the equivalent. Written permission required for specific section. Each section is limited to 16 students. PROFESSORS CUMMING, KENDLER, PIERREL, and WILLIAMS, MR. COOK and \_\_\_\_\_. Section I M W 1-4. 301 Milbank. Section II M W 1-4. 304 Milbank. Section III T Th 9-12. 301 Milbank. Section IV T Th 9-12. 304 Milbank. Section V T Th 2-5. 301 Milbank. Section VI T Th 2-5. 304 Milbank.

### 9. Introduction to Psychological Statistics. 3 points.

[3]

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction. Prerequisite: Course 7-8. MR. COOK. M W F 11. 335 Milbank.

### 11 (or R11). Psychological Tests. 3 points.

[9]

An introduction to standardized scales of mental measurement through demonstration of their nature, use, and interpretation, and practice in their administration. Twice during the semester each student must bring a child to the laboratory to be tested, at times other than those scheduled for the class. Prerequisite: Course 7-8. \_\_\_\_\_. T 2 and Th 2-5. 233 Milbank.

### 16. Educational Psychology of Learning. 3 points.

[4]

An introduction to the psychology of learning designed for students interested in education. Among the topics emphasized are basic learning principles, punishment, complex learning, appraisal of learning, and learning theories. Prerequisite: Course 1 or the equivalent. Open to all except freshmen. PROFESSOR CUMMING. M W F 1. 215 Milbank.

### 21. Abnormal Psychology. 3 points.

[8]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1 and one or more additional courses in psychology. PROFESSOR YOUTZ. T Th 11, and consultation in connection with readings for the third point. 129 Milbank.

### 24. Applied Psychology. 2 or 3 points.

[6]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, treatment of delinquents and criminals, and other problems of practical in-

# BARNARD COLLEGE

terest. Prerequisite: Course 1 or the equivalent. PROFESSOR YOUTZ. T Th 9, and additional conferences on a project or paper for the third point. 204 Milbank.

## 25. **Physiological Psychology.** 4 points.

[8]

Behavior as related to the physical structures and the physiology of the organism. Functional neuroanatomy and receptor processes will constitute the two major divisions of the course. Laboratory work will include dissection of the sheep's brain and demonstrations of electrical activity in the central nervous system. Prerequisite: Course 7-8, or written permission of the instructor. PROFESSOR PIERREL. T 2 and Th 2-5. Conferences in connection with reports for fourth point.

## 26. **Psychology of Personality.** 3 or 4 points.

[3]

Contemporary methods and views of the description of the individual, including the factors in the development of personality and the practical aspects of personal adjustment in changing society. The contributions from experimental psychology. Prerequisite: Course 1 or the equivalent. MR. COOK. M W F 11, and conferences in connection with a paper for the fourth point. 335 Milbank.

## 27. **Psychology of Childhood.** 4 points.

[2]

Human behavior in infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week. Prerequisite: Course 1 or the equivalent. PROFESSOR KENDLER. M W 10. Each student will also attend one of the following discussion sessions: T 11, 219 Milbank; W 3, 319 Milbank; W 4, 319 Milbank; Th 11, 219 Milbank. Conferences in connection with reports for the fourth point. 335 Milbank.

## 28. **Psychology of Adolescence and Maturity.** 3 or 4 points.

[2]

The mental, social, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation and delinquency. Prerequisite: Course 27. PROFESSOR KENDLER. M W F 10, and conferences in connection with a project or paper for the fourth point. 335 Milbank.

## 37. **Social Psychology.** 3 or 4 points.

[4]

An introduction to the study of social behavior. Among the topics considered are communication, social learning, interaction, mass behavior and leadership. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. PROFESSOR CUMMING. M W F 1, and conference hour in connection with a project or paper for the fourth point. 215 Milbank.

## PSYCHOLOGY

### 41-42. Field Work at Payne Whitney Clinic. 6 points. [11]

Students taking Psychology Major B will spend two afternoons a week at the Payne Whitney Psychiatric Clinic of the New York Hospital. This work is designed to improve the student's understanding of the work on psychiatric hospital wards. Prerequisite: Courses 7-8, and 21 and written permission of PROFESSOR YOUTZ. M 2:45-5:45 and one other afternoon, T Th or F 2:45-5:45.

### 47. Advanced Experimental Problems. 3 points. [0]

Original investigations will be planned and undertaken in learning, reasoning, perception, and other areas of interest to the individual class members. Designed chiefly for students who intend to do graduate work in psychology or related fields, or who show interest and capability in the conduct of research. Open on written permission of the instructor to students who have had Course 7-8. PROFESSOR YOUTZ. W 3-5.

### 48. Seminar on Individual Projects. 1, 2, or 3 points. [0]

Students will report to the group on the plans, progress, and results of individual projects supervised by members of the department. Open only to majors who have had Course 7-8, on written permission of the department. PROFESSOR YOUTZ. W 3-5.

### 57. Systems of Psychology. 3 points. [2]

A comparative, critical, and historical survey of the more influential points of view in psychology. Each student prepares a paper reporting on an important person, institution, or subject matter area. Open to senior majors. PROFESSOR YOUTZ. M W 10. 301 Milbank.

### 108. Development of Psychological Concepts. 3 points. [7]

A critical analysis of stages in the development of psychological concepts. Application to reports in current journals, both experimental and clinical. Each student will choose an area of interest and report on its origins and present status. Prerequisite: Course 7-8 or the equivalent. PROFESSOR YOUTZ. T Th 10:35-11:50, and conferences in connection with a report for the third point. 129 Milbank.

# RELIGION

ASSOCIATE PROFESSOR: URSULA M. NIEBUHR (Executive Officer)

ASSISTANT: JOHN WILSON

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

PROFESSORS: JOHN HUTCHISON, HARRY WILLMER JONES

ADJUNCT PROFESSORS: GEORGES FLOROVSKY, JUDAH GOLDIN, ROBERT GORDIS, WILLIAM R. O'CONNOR, WILHELM PAUCK, JAMES A. PIKE

ASSISTANT PROFESSOR: JACOB TAUBES

ASSOCIATE: MARGUERITE BLOCK

LECTURER: FRANK WEKERLE

The purpose of the program is to introduce the whole field of religion and to present the documents, history and thought of the great religious traditions of the West.

The major requirements are:

Required courses: 9, 10; 45, 46; 83, 84; 85, 86, and one of the following full-year courses or combinations of courses: 1, 2; 19, 20; 22; 31.

Students will be required to take 28 points in religion. As the study of religion involves other related fields in the humanities and social sciences, a student majoring in religion is also required to take courses amounting to 12 points in two of the following departments: anthropology, English, fine arts, government, Greek and Latin, history, philosophy, sociology. These courses should be selected in consultation with the major adviser.

If a student intends to pursue graduate work, study of languages (such as Hebrew,<sup>1</sup> Greek, Latin, German) is advised. In addition to the language courses given at Barnard College, other language courses are open to Barnard students at Columbia.

The major examination consists of: Two three-hour papers; the first, general and interpretative of the whole field studied; the second, historical, designed to test the material studied in connection with the thought and history of Christianity and Judaism.

A major senior essay written in connection with Courses 85, 86 must be submitted before April 1.

**1, 2. Introduction to Religion: Its Nature and Major Traditions. 6 points.**

Winter Session: Methods and problems in the study of religion. Religion in primitive cultures. Egyptian and Mesopotamian religions, Hinduism, Buddhism,

<sup>1</sup> A limited number of scholarships are available to Barnard students for work in Hebrew in General Studies on application to Dean Hacker.

and Confucianism. Spring Session: Judaism, and major traditions of Christianity and Mohammedanism. Brief survey of religious movements in America. MR. WEKERLE, assisted by members of the department. Lec. M 6:10-8. Conferences: M 1, Th 2, Th 6:25. 304 Hamilton.

**4. Religious Ideas in the Heritage of Western Thought. 2 points. [9]**

The derivation, meaning and development of words and concepts. Discussion of views of man, good and evil, history and God. PROFESSOR NIEBUHR. T Th 2. 129 Milbank.

**5. Elements of Christianity. 2 points.**

Main teachings of Christianity. Christian theology, its sources in reason, scripture and tradition. Doctrines of God, man, salvation and the Church, etc. CHAPLAIN KRUMM. T Th 10. 505 Business.

**[7. Introduction to Judaism. 2 or 3 points. DR. GORDIS.**

Not given in 1956-57.]

**9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testaments. 6 points. [7]**

Winter Session: Hebrew Religion. Its beginnings and nature. Ancient myths, stories and records. Moses, Israel as the covenant people. The prophets. The exile and development of Judaism. Spring Session: The Graeco-Roman world and Jewish background of the first century. The gospels. The letters of St. Paul. The book of acts. The spread of Christianity. Persecutions and heresies. PROFESSOR NIEBUHR. T Th 10:35-11:50. 409 Barnard.

**11. Ethical Issues in Judaism. 2 or 3 points.**

Ethics in Rabbinic, Medieval and modern Judaism. Their relevance to problems of family, social and political life. PROFESSOR GORDIS. Th 4:10-6. Third hour to be arranged for students registering for 3 points. 509 Business.

**14. The Teachings of the Synagogue Fathers. 3 points.**

The principal religious and intellectual issues of Judaism in New Testament times, as illustrated by The Wisdom of Fathers (Pirke Aboth). PROFESSOR GOLDIN. T 4:10-6. 318 Hamilton.

**19, 20. Philosophy of Religion (Same as Philosophy 81, 82). 6 points. [10]**

Winter Session: Philosophic interpretations of religion in the West, illustrated by Aquinas, Spinoza, Hume, etc. Spring Session: Contemporary problems: religion, philosophy and culture. The nature of man and history. The need of symbols and language. Open to all except freshmen. Prerequisite: Philosophy 1. Religion 4 also is recommended. PROFESSOR HUTCHISON. T Th 2 and conference hour. 703 Hamilton.

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## 22. Oriental Religions. 2 points.

The major religious traditions of India, China, and Japan. The institutions, arts and philosophies of Hinduism, Buddhism, Confucianism, Taoism, and Shintoism. Open to all except freshmen. DR. BLOCK. M W 3. 401 Low.

## 24. Christian Ethics. 2 points.

Basic principles and problems of Christian ethics, and a discussion of the relevance of Christian ethics to personal and social life. CHAPLAIN KRUMM. T Th 10. 505 Business.

## 25, 26. Religion in Contemporary Society and Culture. 6 points. [1]

Winter Session: The upsurge of religion today. Its ethical and social significance. Questions of motives and meanings. The conservative or conforming element in religion opposed to the prophetic and critical. Spring Session: Religion, its meaning and the problem of its expression. Language, myth, art and religion as symbolic forms expressing various related modes of experience. Course 25 may be counted toward the contemporary society requirement. Open to all except freshmen. Lectures and weekly class discussions. PROFESSORS NIEBUHR and HUTCHISON and guest lecturers. M W F 9. 37 Milbank.

## 35, 36. Special Reading. 2 or 4 points.

[0]

A program of reading to supplement and coordinate work in other courses. PROFESSOR NIEBUHR. Conference hours to be arranged.

## [43, 44. The Historical Background and Early Beginnings of Christianity. 6 points. PROFESSOR NIEBUHR.

Not given 1956-57.]

## 45, 46. History of Religious Thought in the Christian West. 6 points.

Major developments of Western religious thought. Readings from Church Fathers, medieval theologians, Reformers, liberal and contemporary theologians. Open only to juniors and seniors. MR. WEKERLE. M W 2. 303 Hamilton.

## 47, 48. History of Religious Thought in the Jewish Tradition. 6 points.

Readings and analysis of important movements in Jewish religious thought. Winter Session: Stages of Jewish religion. Spring Session: Messianism, eschatology and theology of history. PROFESSOR TAUBES. M W F 1. Winter Session. 401 Hamilton. Spring Session. 318 Hamilton.

## [53. A Survey of Eastern Orthodox Theology. 3 points. DR. FLOROVSKY.

Not given in 1956-57.]

## [55. A Survey of Roman Catholic Theology. 3 points. DR. O'CONNOR.

Not given in 1956-57.]

**57. The Liturgy, Worship, and Institutions of the Roman Catholic Church.** 3 points.

A comprehensive survey of the organizations, government, and liturgical life of the Church. DR. O'CONNOR. T F 7-8:15 p.m. 301 Hamilton.

**[58. History of Religion in America (same as History 58).]** 3 points. PROFESSOR HARRINGTON.

Not given in 1956-57.]

**60. Contemporary Movements in Roman Catholic Thought.** 3 points.

Contemporary theological and philosophical issues. DR. O'CONNOR. T F 7-8:15 p.m. 304 Hamilton.

## SEMINAR COURSES

**[81, 82. A Symposium. Interpreters of Life.**

Not given in 1956-57.]

**83, 84. Major Seminar.** 4 points.

[13]

Discussion of selected subjects which will relate and supplement the student's reading in other courses. Written and oral reports. Required of all majors in the senior year. PROFESSOR NIEBUHR. T 3-5. 39 Milbank.

**85, 86. Senior Essay.** 4 points.

[0]

Reading and reports as preparation for writing a long paper under the supervision of a member of the department. Required of all majors in the senior year. Papers to be due by April 1 so that they may be read, criticized and discussed. Th 3-5. 39 Milbank.

## RELATED COURSES IN OTHER DEPARTMENTS

**Philosophy 9. The Metaphysics of Theism.** PROFESSOR POTTER.

**Government 31, 32. The History of Political Thought.** PROFESSOR STEWART.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Their description may be found in the Announcement of the Faculty of Philosophy. The following courses are recommended for students who have the written permission of the department.

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**107-108. The Development of Biblical Literature and Thought.** 2 or 3 points.

PROFESSORS NIEBUHR and HUTCHISON. M W 11 and conference hours to be arranged. 227 Pupin.

**110. Religious and Legal Aspects of Church-State Relations.** 2 points.

PROFESSORS PIKE and JONES.

Joint seminar with the School of Law. Admission on permission of either instructor. M 4:10-6. Kent.

**[117-118. History of Religious Thought in the Christian East.]** 6 points.

PROFESSOR FLOROVSKY.

Not given in 1956-57.]

**120. The History of Judaism.** 3 points.

PROFESSOR GORDIS. Th 4:10-6. 613 Hamilton.

**[122. The Apocrypha.]** 3 points. PROFESSOR GORDIS.

Not given in 1956-57.]

**[124 Studies in Thomistic Theological Thought.]** 3 points. PROFESSOR O'CONNOR.

Not given in 1956-57.]

**126. Protestantism and Culture.** 3 points.

PROFESSOR PAUCK. W 7-8:40 p.m. 508 Butler.

**130. History of Russian Religious and Philosophical Thought.** 3 points.

PROFESSOR FLOROVSKY. M Th 7-8:15 p.m. 318 Hamilton.

# SOCIOLOGY

PROFESSOR: MIRRA KOMAROVSKY (Executive Officer)

ASSOCIATE PROFESSOR: BERNARD BARBER

ASSISTANT PROFESSOR: GLADYS MEYER

ADJUNCT ASSISTANT PROFESSOR: KATHERINE ORGANSKI

LECTURERS: RICHARD E. BROTMAN, RENÉE CLAIRE FOX

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general.

A student majoring in sociology will be required to take: Economics 1-2, Sociology 1-2, and other sociology courses to be selected in consultation with major adviser. Courses 32, 33, 34, 35, 38, 41 are strongly recommended. Economics 1-2 does not count toward the major. Economics 17 is the only course given outside the department which may count toward the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also Interdepartmental Offerings, page 36.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

## 1-2. Introduction to Sociology. 6 points.

[19]

An introduction to sociological analysis with emphasis on contemporary American society. Winter Session: The structure of society. The family and the other major social institutions; class stratification; social groups, codes, and control; ecology and social organization of modern communities. Spring Session: Social change and social problems. Population and migrations, race and group conflict, community disorganization and crime. Problems of social reorganization. PROFESSORS KOMAROVSKY, BARBER, MEYER, and DR. FOX.

Section I M W F 10. 202 Milbank. (Not open to freshmen)

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Section II M W F 11. 215 Milbank. (Not open to freshmen)

Section III T Th 9:10-10:25. 233 Milbank. (Not open to freshmen)

Section IV M W F 2. 4 Milbank. (Open only to freshmen and sophomores)

## 21-22. Introduction to Social Work. 6 points.

[6]

The social and economic situations which lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in philosophy and policy of social work. Field work for one-half day a week is required and placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Prerequisite: Course 1-2, Economics 1-2, Psychology 1, or the permission of the instructor. Course 21 may not be taken without Course 22, except by written permission of the instructor, and a paper must be substituted for field work. Course 22 may not be taken without Course 21. PROFESSOR MEYER. T Th 9:10-10:25. 309 Milbank.

## 31. Marriage and the Family. 3 points.

[3]

Study of the contemporary American family at successive stages of family life, from courtship through parenthood and old age. The marriage relationship, factors in marriage adjustment and maladjustment. The problems of modern women. The child in the family, the family as a cradle of personality. Family disorganization and divorce. Programs for family reorganization. Open to juniors and seniors. Sociology majors and others interested in a more systematic and advanced study of the family are advised to take Sociology 32 instead of 31. PROFESSOR KOMAROVSKY. M W F 11. 37 Milbank.

## 32. The Family. 3 points.

[3]

A systematic study of the American family using comparative materials from other societies. Ethnic and class differences in family life. Recent developments in family theory and research in sociology and related disciplines. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M W F 11. 37 Milbank.

## 33. The Community. I. Rural-Urban Sociology. 3 points.

[4]

Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1. 233 Milbank.

## 34. The Community. II. Ethnic and Minority and Intergroup Relations. 3 points.

[4]

The composition and distribution of populations; major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1. 233 Milbank.

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**35. American Social Classes.** 3 points. [5]

Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2. 39 Milbank.

**38. Comparative Social Institutions.** 3 points. [5]

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U. S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2. 315 Milbank.

**40. The Sociology of Occupations.** 3 points. [10]

Theoretical and practical problems of various types of work and workers (e.g., executives, entrepreneurs, professionals, laborers, white-collar workers, etc.) in modern society with comparative materials from other societies. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 3. 319 Milbank.

**41. Recent Sociological Theories.** 3 points. [7]

A critical appraisal of the works of some American and European sociologists, particularly as they bear on the problems of social change and social movements. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. T Th 10. 4 Milbank.

**42. Social Problems and Social Movements.** 3 points. [7]

The natural history of social problems, traced from their emergence through the various stages of social reform. The social and psychological aspects of social movements. Techniques of and types of resistance to social reform. The course will draw upon historical material as well as contemporary reform movements. Individual projects. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. T Th 10. 4 Milbank.

**43, 44. Methods of Sociological Research.** 6 points. [9]

The logic and methods of sociological research. The various steps of the scientific method from the development of hypotheses and the formulation of the research design to the final analysis of the data are examined. Specific researches are reviewed as illustrations of various types of modern research methods. Special projects for the third point. Prerequisite: Course 1-2. Course 43 is prerequisite for Course 44 except by special permission of the department. PROFESSOR ORGANSKI. T 2:10-4. 319 Milbank.

**87-88. Seminar in Community Problems.** 2 points. [0]

A field work and research program pursued in the Morningside Heights Community. Weekly individual conferences and field work at hours to be arranged.

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Prerequisite: Course 1-2 and special permission of the instructor. DR. BROTHMAN. M W 4. 29 Milbank.

**97, 98. Seminar.** 6 points.

[0]

Winter Session: Group seminar to be conducted by PROFESSOR BARBER. Spring Session: Individual projects under the supervision of all members of the department. Open to junior and senior majors. PROFESSORS KOMAROVSKY, MEYER, and BARBER. M W F 10. 39 Milbank.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are also open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Political Science. Among those suitable for Barnard students the following are recommended:

**★118. Sociology of Knowledge.** 3 points. PROFESSOR BARBER.

**★135. The Study of Public Opinion.** 3 points. PROFESSOR LAZARSFELD.

**★161. Political Sociology.** 3 points. PROFESSOR LIPSET.

**★193. Public Opinion Research.** 3 points. PROFESSOR HYMAN.

**★284. Social and Psychological Factors in National Planning.** 3 points. PROFESSOR LYND.

# SPANISH

PROFESSOR: AMELIA A. DE DEL RÍO (Executive Officer)

ASSOCIATE PROFESSOR: EUGENIO FLORIT

ASSISTANT PROFESSOR: MARGARITA U. DA CAL

ASSOCIATE: LAURA R. DE GARCÍA-LORCA

LECTURER: MARIA TERESA ESCOBAL

A major in Spanish is designed to enable the student to understand, speak and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish American world, with a more profound knowledge of the literature and art of Spain and of the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel or the theater, or on a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13-14; 15a-16a; 19; 22; and 23-24; and either 17-18; 25-26; 27-28, or a more advanced course to be chosen in consultation with the department. Courses 1-2; 3, 4; 3a, 4a, and 9-10 do not count toward the major requirement.

Other fields: The following courses are recommended: Anthropology 9-10; Fine Arts 75, 76; Foundation of Language Learning; French 7, 8; History 19, 20; Italian 21, 22; 195, 196; Philosophy 1; 61-62.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

## LANGUAGE COURSES

### 1-2. Elementary Full-Year Course. 8 points.

[17]

Grammar, reading, conversation. May not be taken parallel to Italian 1-2. PROFESSORS DEL RÍO and DA CAL. Section I M T W Th F 9. 203 Milbank. Section II M T W Th F 2. 207 Milbank.

### 3, 4. Intermediate Course. 6 points.

[17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish American literatures. Monthly book reports on outside reading. PROFESSOR DA CAL and MRS. GARCÍA-LORCA. Section I M W F 9. 209 Barnard. Section II M W F 1. 309 Milbank.

### 3a. Intermediate Course in Grammar and Composition. 3 points.

[17]

The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions

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on outstanding novels and poetry. Monthly book reports on outside reading. **MRS. GARCÍA-LORCA.** M W F 11. 209 Milbank.

**4a. Advanced Course in Grammar and Composition.** 3 points. [17]

Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. **MRS. GARCÍA-LORCA.** M W F 11. 209 Milbank.

**[5, 6. Spanish Composition.** 4 points. **PROFESSORS DEL RÍO and DA CAL.**

Not given in 1956-57.]

**5x, 6x. Spanish Composition.** 4 points. [0]

Rapid review of grammar and intensive translation from Spanish into English; sight reading and prepared translation. This course is planned for students who wish to take the foreign language test. Prerequisite: Course 3, 4, or 4a. **PROFESSOR FLORIT and MRS. GARCÍA-LORCA.** T Th 9. 209 Milbank.

**9-10. Intermediate Spanish Conversation.** 2 points. [0]

Open only to students taking another Spanish course, either session. **MEMBERS OF THE DEPARTMENT.** Section I T 3. 209 Milbank. Section II Th 3. 209 Milbank.

**11-12. Advanced Spanish Conversation.** 2 points. [0]

Discussion and reports on Spanish subjects. Prerequisite: Course 9-10. Open only to students taking another Spanish course, either session. **MEMBERS OF THE DEPARTMENT.** T 4. 209 Milbank.

**31-32. Oral Spanish, Advanced Course.** 4 points. [0]

Discussion based on readings of outstanding works of Spanish literature, reports on varied subjects, recitation of representative poetry. Prerequisite: Course 3, 4 or 3a, 4a, or permission of instructor. **PROFESSOR DA CAL and MRS. GARCÍA-LORCA.** T Th 3. 106 Barnard.

## LITERATURE COURSES<sup>1</sup>

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

**13, 14. The Culture of the Hispanic Countries.** 4 points. [7]

Winter Session: The history and culture of Spain. **MRS. GARCÍA-LORCA.** Spring Session: The development of Spanish American culture. **PROFESSOR FLORIT.**

<sup>1</sup> All courses are conducted entirely in Spanish.

Lectures and monthly book reports. Prerequisite: Course 3, 4 or 5, 6. T Th 10. 22 Milbank.

**§15—§16. Introduction to Spanish Literature.** 6 points. [17]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSOR DA CAL and MRS. GARCÍA-LORCA. Section I M W F 10. 203 Milbank. Section II M W F 11. 321 Milbank.

**§15a—§16a. Spanish Literature.** 6 points. [17]

Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15—16. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSOR DEL RÍO. M W F 10. 319 Milbank.

**[17—18. The Spanish Drama of the Golden Age.** 6 points. PROFESSOR DEL RÍO.

Not given in 1956—1957.]

**19. Nineteenth Century Literature in Spain.** 3 points. [9]

Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14, 15—16, 15a—16a, or the written permission of the department. PROFESSOR DA CAL. T Th 2. 22 Milbank.

**§22. Contemporary Spanish Literature.** 3 points. [9]

A study of outstanding authors from 1898 to 1936. Three book reports on the main novelists. Prerequisite. Course 13, 14, 15—16, 15a—16a, or the written permission of the department. PROFESSOR DEL RÍO. T Th 2. 22 Milbank.

**§23—§24. Spanish American Literature.** 4 points. [8]

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14, 15—16, 15a—16a, or the written permission of the department. PROFESSOR FLORIT. T Th 11. 22 Milbank.

**25—26. Cervantes.** 6 points. [3]

Lectures, reading, and discussion of Cervantes' novels and theater. Short papers on topics chosen by students. This course is not divisible under any circumstances. Prerequisite: Course 15—16 or 15a—16a. PROFESSOR DEL RÍO. M W F 11. 22 Milbank.

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**§27—§28. Spanish Poetry.** 6 points.

[4]

A study of the development of the poetry of Spain from its origin to the present time. A term paper each semester. This course is not divisible under any circumstances. Prerequisite: Course 15—16 or 15a—16a. PROFESSOR FLORIT. M W F 1. 22 Milbank.

**29, 30. Special Reading.** 4 points.

[0]

Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. T Th 2. 209 Milbank.

# ZOOLOGY

PROFESSORS: AUBREY GORBMAN, JOHN A. MOORE

ASSOCIATE PROFESSOR: INGRITH J. DEYRUP (Executive Officer)

LECTURER: LUCENA J. BARTH

ASSISTANTS: BARBARA BEERS, LEE EHRMAN, ELIZABETH LE BOURHIS, RUTH T. WILF

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend in part on the ultimate aims of the student, but some general advice can be offered. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary. This is important in order to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

All students majoring in zoology should take Course 1-2 during the first year if possible. Beyond this, there are no specific course requirements, but the following has been found to be a satisfactory sequence for most majors; second year: Courses 3 and 14; third year: Courses 13 and 8; fourth year, Courses 15 and 72.

Chemistry 1-2 and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. This may be taken during the senior year. Graduate work in zoology requires a knowledge of German and French.

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major thesis, which is closely correlated with the senior seminar, 72, represents an attempt to correlate and analyze the basic concepts of zoology. Further information about it may be obtained from members of the department.

## 1-2. General Zoology. 10 points.

[1]

An introduction to the data, methods and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genet-

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ics, embryology and physiology. PROFESSOR MOORE and assistants. Lec. M W F 9. Lab. (4 hours) M 1-5; T 2-6; W 1-5; Th 2-6; F 1-5. Theater.

## 1a-2a. General Zoology. 6 points.

[1]

Lectures identical with those of 1-2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9. Theater.

## 3. A Study of Biological Concepts. 4 points.

[6]

An historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1-2 or special permission. DR. BARTH. Lec. T Th 9. Lab. F 1-5. 13 Milbank.

## [8. Biology of Vertebrates. 4 points.

Not given in 1956-57.]

## 13. Histology and Histological Methods. 5 points.

[8]

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study. Prerequisite: Course 1-2. PROFESSOR GORBMAN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6. 315 Milbank.

## 14. Embryology. 4 points.

[8]

The development of the vertebrate animal, with a consideration of some of the factors which influence development. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of the instructor. PROFESSOR GORBMAN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6. 315 Milbank.

## 15. General Physiology. 6 points.

[2]

The physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail. Prerequisite: Course 1-2; Chemistry 41 preceding or parallel is recommended. PROFESSOR DEYRUP. Lec. M W F 10. Lab. M W 2-5 or T Th 2-5. 304 Milbank.

## [25. The Origin and Evolution of Life. 3 points. PROFESSOR MOORE.

Not given in 1956-57.]

## 27. Genetics. 4 points.

[6]

A discussion of the inheritance, structural basis, and mode of action of genetic material. Prerequisite: Courses 1-2 and 13. Courses 25 and 27 are given in alternate years. PROFESSOR MOORE. Lec. T Th 9. Lab. F 1-5 and an additional hour to be arranged. 29 Milbank.

**61, 62. Problems in Zoology.**

[0]

Work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS DEYRUP and GORBMAN and DR. BARTH. Hours and credit by arrangement.

**72. Senior Seminar. 2 points.**

[0]

Reading of literature and discussion of fundamental problems of zoology. DR. BARTH. Conference period: T 2. 39 Milbank.

**122. Ecology and Animal Behavior. 2 points.**

[6]

Topics from the recent literature in the fields of ecology and animal behavior. Prerequisite: Course ★101 or the equivalent. Admission only with the permission of the instructor. PROFESSOR MOORE. T Th 9. 13 Milbank.

**129. Comparative Endocrinology. 3 points.**

[1]

Comparative physiology, morphology and development of the endocrine systems. The relation of endocrine secretions to environmental adaptations, behavior and reproduction of animals. Prerequisite: Courses 1-2 and 13. Organic chemistry is recommended. PROFESSOR GORBMAN. M W F 9. 39 Milbank.

**130. Experimental Procedures in Endocrinology. 3 points.**

[0]

The basic laboratory procedures used in the study of endocrine phenomena, including familiarization with biochemical preparations, bioassay, surgery, and radioisotopic tracers. Prerequisite: Course 129 and written permission of the instructor. PROFESSOR GORBMAN. Lab. M 1-4 and three hours to be arranged.

**152. Vertebrate Physiology. 6 points.**

[3]

The functions and interrelationships of the organs and organ systems of vertebrates. Circulation, respiration, gastro-intestinal function, excretion, additional mechanisms concerned with the regulation of the internal environment, and the integrative role of the central nervous system. Prerequisite: Course 1-2 or the equivalent, inorganic chemistry and physics. Admission only with written permission of the instructor. PROFESSOR DEYRUP. Lec. M W F 11. Lab. (6 hours) M W 2-5. 219 Milbank.

**152a. Vertebrate Physiology. 3 points.**

[3]

Lectures identical with those of 152. No laboratory work. PROFESSOR DEYRUP. M W F 11. 219 Milbank.

## VI. Professional Schools

The requirements for admission to the professional schools of Columbia University vary: in some instances a Bachelor's degree is essential; in others a student is eligible after one year or two years or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Barnard College keeps in close touch with these schools and the Class Advisers give pertinent advice concerning them. Full information in regard to each may be obtained from the Secretary of Columbia University.

### THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in professional school. To be eligible for this privilege, before entering the professional school, the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

### ARCHITECTURE

The School of Architecture offers a course of study leading to the degree of Bachelor of Architecture. Under normal conditions, the professional degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

### BUSINESS

The Graduate School of Business offers a one-year course of study leading to the degree of Master of Science for college graduates who

## PROFESSIONAL SCHOOLS

have majored in business, a two-year course of study leading to the degree of Master of Business Administration for college graduates without previous preparation in business, and advanced studies leading to the degree of Doctor of Philosophy.

To meet the educational needs of college graduates who wish to undertake advanced business training while employed, applications are accepted for admission to part-time study.

### DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

### DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoology, inorganic chemistry and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

### DRAMATIC ARTS

The School of Dramatic Arts offers to graduates with a Bachelor's degree from Columbia University or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in Dramatic Arts).

## BARNARD COLLEGE

### ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, and mineral engineering. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads to the degree of Bachelor of Science only.

Students who are interested in engineering should offer at entrance to Barnard additional credits in mathematics (through trigonometry), one in chemistry, and if possible, one in physics. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the Announcement of the School of Engineering.

### INTERNATIONAL AFFAIRS

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. The emphasis during the first year is upon the development of an adequate knowledge and understanding of the field generally and of a specialized knowledge of one world area; emphasis in the second year is upon the development of one of the following functional specialties: business affairs, economic affairs, government affairs, international administra-

tion, and legal affairs. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a Bachelor's degree from an approved institution, and (b) a superior undergraduate record. In addition to these basic requirements, the student must satisfy special requirements of the functional field in which she plans to specialize. Further information may be obtained from the Office of University Admissions.

## JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

## LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both. The minimum requirement for admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year, the first date being November 10, 1956. For further information write to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

## LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

## BARNARD COLLEGE

### MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

### NURSING

Columbia University offers a three-year course at the College of Physicians and Surgeons and the Presbyterian Hospital leading to the degree of Bachelor of Science and a diploma in nursing. The preparatory work at Barnard should comprise work in chemistry or biology, psychology, and sociology. The acceptance of a candidate is based on grounds of character and health as well as on the fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work, but students who hold the Bachelor's degree may obtain permission to complete the course in two years and four months.

### OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a minimum of 6 semester hours in biology (including zoology), chemistry or physics and 3 semester hours each in psychology and sociology. The course of study is of twenty-five months' duration, including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of 6 semester hours in biology (including zoology), chemistry or physics, 6 semester hours in psychology

## PROFESSIONAL SCHOOLS

and 3 semester hours in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a Certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health and emotional stability.

Additional information may be obtained from the Office of Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PHYSICAL THERAPY

The Faculty of Medicine offers a program of training in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including 6 points in biological science, 4 points in physics and/or chemistry, and 6 points in psychology.

The course of professional study covers twenty-one calendar months, including two academic years of didactic instruction and clinical practice, and a two month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: 8 semester credits in biological science; 6 semester credits in physics and/or chemistry (preferably both); 10 semester credits in social science (of which 6 must be in psychology). The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Hospital Administration, Administrative Medicine, Biostatistics, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one aca-

## BARNARD COLLEGE

demic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students, and candidates for the degree in Administrative Medicine.

## THE RUSSIAN INSTITUTE

The Russian Institute of Columbia University was established in 1946 with the assistance of the Rockefeller Foundation. The two-year graduate program leading to a Certificate is designed for students who wish to prepare themselves for scholarly or professional careers in the Russian field with special emphasis on some one discipline.

Within the Institute, the candidate will be expected to follow a broad program of survey courses on Russia, and to give major emphasis to one of five Russian fields: history, economy, government and law, international relations, or the social and ideological aspects of literature. Outside the Institute, she will work simultaneously for an advanced degree in the graduate department or school that is most closely allied with the specialty she elects within the Institute.

It is not necessary for a candidate to have a knowledge of Russian, as a reading knowledge of the language can be acquired during the first year of the two-year program.

## SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained upon request.

## TEACHERS COLLEGE

Teachers College, Columbia University, provides for college graduates a one-year course of study leading to the Master's degree and to

teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs of education for work with the blind, hard of hearing, deaf, mentally retarded and physically handicapped.

A combined five-year program can be planned: the regular four-year undergraduate program of liberal arts studies can be combined with the fifth professional year of graduate work at Teachers College. The one-year course of study at Teachers College provides for practical experience and classroom instruction. The program is planned in terms of the individual's background and teaching interests. For guidance on planning programs for teacher preparation—see Dean Bailey, 117 Milbank Hall, and Mr. Lange, 311 Dodge Hall, Teachers College.

### UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

- a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.
- b. Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Stu-

## BARNARD COLLEGE

dents with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.

d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

## VII. Fees

Barnard College cannot charge its students the full cost of their education if it is to make intellectual ability, and not merely ability to pay, the deciding factor in admissions. Tuition and other student fees make up only about two-thirds of the cost of educating a student at Barnard, and the balance must be provided by income from endowment and by annual gifts from alumnae and other friends of the College. Every effort is made to keep fees at a minimum by economies of operation which do not affect the quality of education, and by efforts to increase both endowment and annual giving.

### SUMMARY OF FEES

I.	Full-time non-resident students	Each Session	Academic Year
A.	Registration .....	\$ 10.00	\$ 20.00
	Tuition .....	440.00	880.00
	Student Activity Fee .....	6.50	13.00
	Medical Fee .....	5.00	10.00
		<hr/>	<hr/>
		\$461.50	\$923.00
B.	Optional additional Medical Fee to participate in Columbia University Student Medical Plan* .....	5.00	10.00
		<hr/>	<hr/>
	Total .....	\$466.50	\$ 933.00
II.	Full-time resident students		
	Registration .....	\$ 10.00	\$ 20.00
	Tuition .....	440.00	880.00
	Room, Board, and Laundry...	427.50	855.00
	Student Activity Fee .....	6.50	13.00
	Medical Fee .....	10.00	20.00
		<hr/>	<hr/>
	Total .....	\$894.00	\$1,788.00
III.	Other students		

Matriculated students taking less than a full schedule (9 points or less) and all non-matriculated students are required to pay the registration and medical fees each session, as well as \$40 per point for all academic work and \$5 for physical education, if this is required.

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\* This additional fee is required for all non-resident students not living with parents or relatives.

## BARNARD COLLEGE

All matriculated students are also required to pay the student activity fee.

### IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing winter or spring session, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the tuition bill of the winter or spring session, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room. One half of this deposit, (\$25) will be applied to the rent bill of the winter session and the remainder to the rent bill of the spring session. The entire deposit is forfeited in case of withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 23 .....	\$10
Chemistry 24, 26, 41, 42, 64, 107, 108, 137, 138, each course .....	\$15

### V. Payment of Fees

All fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all fees are paid, including residence hall fees. Failure to register or pay fees on time imposes automatically the statutory charge of \$15 for late registration.

All fees are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all fees, including those for charges in the residence halls, should be in U. S. currency and should be made payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

The privileges of the College are not available to any student who is delinquent in the payment of her fees.

(The application fee of \$10, payable when application for admission is filed, is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session.)

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany. On the basis of this notice the student is entitled to a credit of \$175 a session.

#### **VI. Deferred Payment**

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the session until November 15 or March 15, provided that such permission is granted before August 15 (for the winter session) or December 15 (for the spring session). Any application for the privilege of deferred payment made after August 15 or December 15 will be considered late payment and as such will be subject to a late payment fee of \$5. Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for tuition and residence will become due immediately.

#### **VII. Refunds**

As contracts with instructors and provisions for education and residence are made by the College in advance for the entire year, no refunds of registration, tuition or rent can be made after these fees become due, except in cases of extreme hardship, of which the College shall be the sole judge. Refunds for board may be made at the discretion of the College and will be computed on a pro rata basis from the date of withdrawal to the end of the session. Application for the refund must be made in writing at the time of withdrawal to the Director of the Residence Halls. No refunds will be made for special diets but the Director of Food Services will make every effort to cater to the needs of individual students.

#### **VIII. Additional Charges**

Tuition for courses in applied music: See departmental announcement of courses for special fees.

## BARNARD COLLEGE

Tuition for technical courses in fine arts: See announcement of the School of General Studies for special fees.

Tuition for General Studies courses: See announcement of the School of General Studies for special fees.

Late registration for academic work (see page 164) . . . . . \$15.00

Late filing of program. . . . . 10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose. In the spring term students who defer filing programs until after Commencement are fined \$20.

Deficiency and special examinations, payable in each case before the examination is held:

For each deficiency examination. . . . . \$ 5.00

For each special examination. . . . . 10.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended.)

For late application for any such examination or for the foreign language test. . . . . 5.00

For the degree. . . . . 20.00

This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or October and by January 1 by candidates for the degree in February.

### IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include a gymnasium costume, approximately \$15, Student Government dues of \$2.00 for resident students, and a minimum of \$40 per year for textbooks. Non-resident students should estimate a minimum \$100 (\$3.00 weekly) for lunches if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include transportation, clothes, supplies, and amusements.

### X. Medical Plan

Barnard College has on its staff a full-time physician, who is in charge of all matters affecting the health of students, a part-

time psychiatrist, and two nurses. Medical examinations are required for freshmen and seniors. This medical service is available to all students and is covered by a \$5 fee payable each session.

Resident students and non-resident students not living with family or relatives are required to pay an additional medical fee of \$5 each session. This allows them to participate in the Columbia University Students Medical Plan during the academic year. Non-resident students living at home may also participate in this plan by paying the additional \$5 fee each session. The CUSMP entitles the student to the following services:

A. Columbia University Medical Office: Medical treatment for conditions not requiring bed care; surgical treatment for minor surgical conditions; consultation with specialists when recommended by the College Physician; laboratory and X-ray studies as deemed advisable.

Not provided: dental care; drugs; fitting and provision of glasses; house calls.

B. Columbia University Infirmary: Bed care for ten days a semester will be provided without charge.

C. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each semester. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

## XI. Hospital Insurance

Membership in the Associated Hospital-United Medical Service, beginning October 1, costs \$29.76 for twelve consecutive months. Consult the Bursar for complete information.

Foreign students who live outside the United States are asked to subscribe to the Exchange Students' Accident and Sickness Insurance Plan issued by the Institute of International Education, 1 East 67th Street, New York 21, N. Y.

## VIII. Financial Aid

The College desires that no qualified student be excluded from Barnard because her family has only moderate means.

In effect, every student at Barnard receives some financial aid from past donors, because the College fees do not cover the entire cost of educating the student today. The balance is made up by endowment income and gifts. In addition, scholarships, grants-in-aid, loan funds and provisions for self-help (see Placement Office, page 23) are provided in order to open Barnard's doors to girls of superior talent from all sections of the country, without regard to their ability to pay, but only for their promise.

Scholarship funds are, however, never sufficient to meet all the demands. For this reason it is hoped that those who benefit from this assistance may take a special interest in adding to the scholarship funds of the College after they have been graduated.

### SCHOLARSHIP FUNDS

Barnard scholarships are awarded annually by the Scholarship Committee to full-time students of high scholarly ability, excellent character, and promise of future usefulness, who are in need of financial aid. For resident students, scholarships generally range from \$150 to \$1,125 on a total annual bill of \$1,788; for students who do not live at the College, scholarships range in value from \$100 to \$500 on a total bill of \$923.

**ENTERING STUDENTS:** All awards are granted on the basis of school records, general merit, need, and the results of the scholastic aptitude and achievement tests, taken in the senior year in high school. Entering scholarships are for one year only. If the student makes a good record at Barnard, she is eligible to apply for further assistance in subsequent years. Since funds are limited, each candidate is asked to apply for the minimum scholarship needed.

Scholarship applications from entering students should be in the hands of the Director of Admissions on or before February 15. Blanks for this purpose may be obtained from the Office of Admissions and must be filed with the application for admission. It is not necessary to apply for a specific scholarship as listed in the following pages.

All scholarship applicants must also file a financial statement with the College Scholarship Service, Box 176, Princeton, New Jersey, or Box 27986, Los Angeles 27, California, not later than February 15 of the

senior year in high school. Forms will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for a scholarship.

The colleges in the Seven College Conference (including Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley) have agreed to cooperate in an effort to award scholarships on a non-competitive basis. Candidates who qualify for scholarships from more than one of the colleges will be offered, whenever possible, awards which are equivalent and vary only in the amount of the difference in the fees of the colleges.

Applicants are notified of awards at the time they receive their notice of admission to the college.

**STUDENTS IN COLLEGE:** Students in college who are in need of financial aid (scholarships, grants-in-aid, as well as loans) and are academically qualified must file applications on special blanks obtainable in the Office of the General Secretary. Applications must be filed on or before March 1 for the ensuing year.

Applicants for scholarships will be notified as soon as awards are made. Recipients are requested to inform the General Secretary immediately, in writing, if because of change of plans, they do not intend to use the funds awarded.

## SCHOLARSHIP FUNDS—UNRESTRICTED

The income from these funds is available each year.

**ALUMNAE SCHOLARSHIP FUND.** Approximately \$14,900. Established by the Class of 1912 at its tenth reunion, it was subsequently increased by a legacy from the estate of Julia Ludlow Young, and by gifts of other alumnae.

**ANNA E. BARNARD SCHOLARSHIP FUND.** \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

**RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND.** \$5,000. Established in 1950 in honor of Ruth Marshall Billikopf, Class of 1919.

**VARIAN WHITE BLUMBERG SCHOLARSHIP FUND.** \$5,000. Established in 1952 by a legacy from the Estate of Varian White Blumberg, Class of 1913.

**CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND.** \$10,000. Established in 1913 with a bequest from the late Annie P. Burgess.

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EVA-LENA MILLER BOOTH SCHOLARSHIP FUND. \$1,000. Given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth.

BREARLEY SCHOOL SCHOLARSHIP FUND. \$3,000. Established in 1899 by pupils and former pupils of the Brearley School.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND. \$4,000. Established in 1915 by her friends in memory of Martha Ornstein Brenner, Class of 1899.

JENNIE B. CLARKSON SCHOLARSHIP FUND. \$3,000. Established in 1898 by the late Mrs. W. R. Clarkson.

CLASS OF 1921 SCHOLARSHIP FUND. \$2,500. Established in 1931 as a tenth reunion gift by the Class of 1921.

CLASS OF 1954 SCHOLARSHIP FUND. \$1,440. Established in 1955 with gifts received from members of the Class of 1954 through the time of their fifth reunion in June, 1959.

IRMA ALEXANDER GOLDFRANK FUND. \$2,105. Established in 1919 by the friends of the late Irma Alexander Goldfrank, Class of 1908.

ADA M. DONELLE SCHOLARSHIP FUND. \$121,751. Established in 1948 with a bequest from the late Mrs. Ada M. Donelle.

FISKE SCHOLARSHIP FUND. \$5,000. Established by the late Mrs. Martha T. Fiske Collord.

GRAHAM SCHOOL SCHOLARSHIP FUND. \$6,100. Established in 1907 by the Graham Alumnae Association.

LOUISE H. GREGORY SCHOLARSHIP FUND. \$3,600. Established in 1955 from gifts in memory of Louise H. Gregory.

HARKNESS SCHOLARSHIP FUND. \$100,000. Established in 1939 by a gift from the late Edward S. Harkness.

CHARLES EVANS HUGHES SCHOLARSHIP FUND. \$14,300. Established in 1952 on the basis of a bequest from the late Charles Evans Hughes in 1949.

LILY MURRAY JONES SCHOLARSHIP FUND. \$25,100. Established in 1950 by Murray, Alfred, and Wallace Jones in memory of Lily Murray Jones, Class of 1905, Alumnae Trustee from 1939 to 1943.

AUGUSTA LARNED SCHOLARSHIP FUND. \$10,000. Established in 1924 with a bequest from the late Augusta Larned.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND. \$2,000. Established in 1955 with a gift from Joan Sperling Lewinson, Class of 1913.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate prizes, page 161.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND. \$5,000. Established in 1947 by the Estate of the late Grace Farrant Luby, Class of 1893.

MEMORIAL SCHOLARSHIP FUND. \$8,167. Established in 1954 to receive contributions given in memory of deceased alumnae and friends.

## FINANCIAL AID

WILLIAM MOIR SCHOLARSHIP FUND. \$10,000. Established in 1912 by the late Mrs. William Moir, in memory of her husband.

CAROLINE CHURCH MURRAY FUND. \$5,000. Established in 1918 by Mr. George Welwood Murray in memory of his wife, Caroline Church Murray.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND. \$3,000. Established in 1947 by the Estate of the late Frederick Nathan.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND. \$5,000. Established in 1940 with gifts from her family and friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930.

PETER C. RITCHIE, JR., SCHOLARSHIP FUND. \$4,400. Established in 1937 with a bequest from the late Virginia J. Ritchie.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND. \$17,805. Established in 1950 by the family, friends, and classmates of the late Edith Lowenstein Rossbach, Class of 1919.

EDNA HELLER SACHS SCHOLARSHIP FUND. \$2,000. Established in 1955 with a gift from Edna Heller Sachs, Class of 1910.

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND. \$10,000. Established in 1922 with a bequest from the late Henry M. Sanders.

ANNA M. SANDHAM SCHOLARSHIP FUND. \$10,000. Established in 1922 with a bequest to Columbia University from the late Anna M. Sandham.

SCHMITT-KANEFENT SCHOLARSHIP FUND. \$7,000. Established in 1931 with a bequest from the late Catherine Schmitt.

SCHOLARSHIP FUND. Approximately \$12,000. Established by general subscription through the Scholarship Committee of the Board of Trustees.

EMILY JAMES SMITH SCHOLARSHIP FUND. \$3,000. Established in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College from 1894 to 1900.

GEORGE W. SMITH SCHOLARSHIP FUND. \$5,000. Established in 1906 by the late Mrs. Martha T. Fiske-Collard as a memorial to Mr. George W. Smith, who was a trustee of Barnard College.

EDNA PHILLIPS STERN SCHOLARSHIP FUND. \$16,350. Established in 1952 by the family and friends of the late Edna Phillips Stern, Class of 1909.

VELTIN SCHOOL SCHOLARSHIP FUND. \$3,000. Established in 1905 by the alumnae of Mlle. Veltin's School.

ALMA F. WALLACH SCHOLARSHIP FUND. \$1,000. Established in 1951 by the Estate of the late Richard L. Leo in memory of Alma F. Wallach.

ELLA WEED SCHOLARSHIP FUND. Approximately \$3,600. Established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

HYMEN WERNER SCHOLARSHIP FUND. \$4,500. Established in 1953 with a gift from Helen Frankfield Werner, Class of 1906, in memory of her husband, Hymen Werner.

## BARNARD COLLEGE

### SCHOLARSHIP FUNDS—RESTRICTED

The income from these funds is available each year.

**MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND.** \$1,000. Established in 1916 by Mrs. James Herman Aldrich to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

**BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND.** Approximately \$21,900. Established in 1952 for a Barnard student whose home is outside the area of the City of New York.

**BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND.** \$4,000. Established in 1916 by the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school.

**WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND.** \$10,000. Established in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, Class of 1900. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school.

**IRVING BERLIN SCHOLARSHIP FUND.** \$18,500. Established in 1950 by Irving Berlin. Awarded annually to one or more girls of foreign-born parentage.

**ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND.** \$10,000. Established in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, Class of 1915. Awarded during her senior year to a student specializing in French.

**BROOKLYN SCHOLARSHIPS.** Twelve at \$150 each. Established in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school.

**ANNE BROWN ENDOWMENT SCHOLARSHIP FUND.** Approximately \$26,339. Established in 1939 by the Anne Brown Alumnae Association for young women of the City of New York and dedicated to the late Anne Brown.

**CARPENTIER RESIDENCE SCHOLARSHIP FUND.** \$200,000. Established in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

**ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND.** \$3,000. Established in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

**MRS. HENRY CLARKE COE SCHOLARSHIP FUND.** \$3,600. Established in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

**CLASS OF 1919 DECENTNIAL FUND.** \$5,000. Established in 1929 for a resident student, as a tenth reunion gift by the Class of 1919.

## FINANCIAL AID

**ENGLISH SCHOLARSHIP FUND.** \$5,000. Established in 1920 by an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject.

**MARTHA T. FISKE SCHOLARSHIP FUND.** \$5,000. Established in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. Awarded to an applicant not a resident of New York City or its suburbs.

**FOOD FAIR SCHOLARSHIP.** Established in 1954 by the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

**HELEN JENKINS GEER SCHOLARSHIP FUND.** \$5,000. Established in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. Awarded annually, after conference with the donor.

**VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND.** \$15,100. Established in 1937 by Mr. Charles R. Crane in honor of the international work of Dean Emeritus Gildersleeve. Awarded annually to a foreign student coming to Barnard to study.

**EMMA HERTZOG SCHOLARSHIP FUND.** \$3,000. Established in 1904 by gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school.

**MARION ALICE HOEY FUND.** \$2,000. Established in 1944 by Miss Nellie Poorman in memory of a graduate of Barnard College in the Class of 1914. Preference is given to applicants studying Greek and Latin.

**LILLIA BABBITT HYDE SCHOLARSHIP FUND.** \$25,000. Established in 1953 by the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students.

**CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND.** \$5,000. Established in 1928 with a bequest from the late Fannie A. Jackson, in memory of her sister. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

**JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS.** Established in 1951 (varying in number) and provided each year by the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

**MARY E. LARKIN JOLINE SCHOLARSHIP FUND.** \$10,000. Established in 1927 with a bequest from the late Mary E. Larkin Joline. Awarded to a student who is specializing in music.

**WERNER JOSTEN SCHOLARSHIP FUND.** \$14,780. Established in 1955 with a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible the scholarship may be awarded to a student majoring in some other field.

**JESSIE KAUFMANN SCHOLARSHIP FUND.** \$4,000. Established in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

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**ELEANOR KINNICUTT SCHOLARSHIP FUND.** \$5,000. Established in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1957 and 1960.

**CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND.** \$6,700. Established in 1953 in memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at the discretion of the Department of Spanish be awarded to a student who is majoring in Spanish.

**EUGENE F. AND MINNIE GOUGER MCGOWAN SCHOLARSHIP FUND.** \$10,000. Established in 1955 with gifts from an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas.

**MRS. DONALD MCLEAN SCHOLARSHIP FUND.** \$3,000. Established in 1906 by the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

**MARY BARSTOW POPE SCHOLARSHIP FUND.** \$4,000. Established in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's school, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders.

**PUBLIC SERVICE SCHOLARSHIP FUND.** \$30,000 from the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, who are interested in following a career of public service in the field of political science, and who show special promise of future usefulness in the public service. Paid at the discretion of the Faculty of Barnard College to either one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one or two or three additional years of graduate study at any approved college or university in order to encourage young women of exceptional ability to complete a long course of study which will fit them for service in public life.

**LUCILLE PULITZER SCHOLARSHIP FUND.** \$176,450. Established in 1899 by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. Three are restricted to students from the City of New York; eight are for resident students.

**LUCILLE PULITZER SUPPLEMENTARY SCHOLARSHIPS.** \$50 each. Established by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They may be used to supplement larger scholarships or themselves combine into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or in special cases, general outside expenses.

**AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND.** \$9,779. Established in 1955 by gifts for this purpose in honor of Mrs. de del Río, the head of the Barnard College Department of Spanish. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eli-

## FINANCIAL AID

gible for the grant, it may, at the discretion of the Department of Spanish, be awarded to a student who is majoring in Spanish.

**FELIX ST. GEORGE SCHOLARSHIP FUND.** \$7,450. Established in 1955 with a bequest from Miss Ida St. George in memory of her father. Awarded to an incoming freshman whose subject of interest is a science or pre-medical course, more particularly physics, chemistry or biology.

**FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND.** \$45,000. Established in 1955 in memory of Fred Curtis Smith, who was at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank.

**EMMA A. TILLOTSON SCHOLARSHIP FUND.** \$5,000. Established in 1910 by the late Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1957 and 1960.

**CLARA BUTTENWIESER UNGER MEMORIAL FUND.** \$2,500. Established in 1938 by the late Joseph L. Buttenwieser, in memory of his daughter, Clara Buttenwieser Unger, Class of 1913. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

**HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND.** \$5,000. Established in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh, Class of 1925. Preference is given to a self-supporting student.

**GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND.** \$5,000. Established in 1953 by the late Charles Webb. Awarded to a student nominated by the Department of History.

**ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND.** \$10,000. Established in 1940 with a bequest from the late Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science.

### SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

**ASSOCIATE ALUMNAE LOAN FUND SCHOLARSHIP.** \$27,000. Established by the Associate Alumnae of Barnard College in 1955 for one or more seniors.

**BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP.** A tuition scholarship, with stipend varying, established in 1944. Awarded annually to a student from Brooklyn.

**HOLLAND DAMES SCHOLARSHIP.** Established by the Daughters of Holland Dames in honor of Fanny I. Helmuth. Awarded in conference with a representative of the society to a student descended from the early Dutch settlers.

**THRIFT SHOP SCHOLARSHIPS.** Awarded annually from the proceeds of the Barnard College Alumnae Thrift Shop, 922 Third Avenue, New York 22, New York.

**WESTCHESTER SCHOLARSHIP.** Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close, Class of 1902. Awarded to entering freshmen from Westchester County for one year only.

## BARNARD COLLEGE

### SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers twenty-one Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: Central: Colorado, Kansas, Missouri, Nebraska; Southwest: Arkansas, Louisiana, New Mexico, Oklahoma, Texas; West: Arizona, California, Idaho, Oregon, Washington.

The amount of the scholarship will be determined by the college making the award from financial information furnished by the applicant. Honorary scholarships carry no stipend; other awards range up to the full amount for tuition, room and board.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

### GRANTS-IN-AID

The income from these funds is available each year.

**IDA BLAIR MEMORIAL FUND.** \$700. Established in 1937 by the Women's Democratic Union, in memory of Ida Blair, to be used for the purchase of books for a student, preferably one studying political science.

**ARTHUR BROOKS FUND.** \$5,000. Established in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

**THOMAS F. CLARK STUDENTS' LOAN FUND.** \$100,000. A bequest of the late Mrs. Fanny Foster Clark.

**GALWAY FUND.** \$2,400. Established in 1912 by an anonymous donor.

### LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which sophomores, juniors, and seniors may borrow. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. These two funds are now administered by the Faculty-Alumnae Scholarship and Loan Committee. In making application for financial aid, a student specifies the amount of money needed to supplement family funds. This may be granted by the Committee partially as an award (scholarship, grant-in-aid) with the remainder being made available as a loan from the above mentioned funds. Any students except freshmen may apply for a loan. A maximum of \$500 may be borrowed over the entire college period. No interest is charged while the student is in college. Payments on principal may be made at any time while the student is an undergraduate. Repayments and interest at the rate of 1% per year are required to start six months after graduation. Loans of more than \$200 are scheduled to be repaid over a period of five years and loans of \$200 and less over a three-year period.

Awards are made on the basis of integrity, good standing in the community, academic merit, a sense of responsibility, and financial need.

## IX. Honors

While all scholarships are awarded to those who have financial need and have proved their academic ability, the following funds were established to honor those who have exhibited the most promise of distinction in their chosen line of work. Therefore, students do not apply for these fellowships and scholarships, which are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

### GRADUATE FELLOWSHIPS

**KIMBALL FELLOWSHIP FUND.** \$32,800. Established in 1938 with a bequest of the late Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

**GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND.** \$20,000. Established by Mr. George Welwood Murray in 1930. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing.

**GRACE POTTER RICE FELLOWSHIP FUND.** \$24,000. Established in 1935, by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing.

**THE HERBERT MAULE RICHARDS FUND.** \$5,000. Established by the Barnard Botanical Club, former students, and friends, in memory of Professor Richards, a member of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

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### GRADUATE SCHOLARSHIPS

**ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND.** \$6,800. Established in 1936 by the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College, who, in the opinion of the Faculty, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree.

**WILLIAM MASON SCHOLARSHIP.** The William Mason Scholarship in music is awarded periodically upon the recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

**MARGARET MEYER GRADUATE SCHOLARSHIP FUND.** \$3,000. Established in 1952 with a bequest from the late Annie Nathan Meyer in memory of Margaret Meyer Cohen, Class of 1915. Awarded to a student in the graduating class for instruction in secretarial work.

### GRADUATE PRIZES

**ALLEN PRIZE IN MATHEMATICS.** A prize of \$600. Awarded, on the recommendation of the Department of Mathematics, to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career, and the student's plans for her future, will be among the factors given consideration by the committee in making the selection. A needy student shall receive the entire sum toward tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year.

**FRANK GILBERT BRYSON PRIZE.** Income on \$3,000. Established in 1931 with a bequest from the late Ella Fitzgerald Bryson, Class of 1894, in memory of Frank Gilbert Bryson. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in their opinion has made the greatest contribution to Barnard during her college career.

**DEAN PRIZE IN GERMAN.** Income on \$1,000. Established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature.

**KOHN MATHEMATICAL PRIZE.** Income on \$1,000. Established by Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

### UNDERGRADUATE PRIZES

The income from prize funds is awarded each year.

**ESTELLE M. ALLISON PRIZE FUND.** \$1,000. Established in 1937 with a bequest from the late Estelle M. Allison. Awarded to a student for excellence in literature.

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**MARY E. ALLISON PRIZE FUND.** \$1,000. Established in 1937 with a bequest from the late Estelle M. Allison, in memory of her mother, Mary E. Allison. Awarded to a student for general excellence in scholarship.

**THE COLUMBIA UNIVERSITY PRESS PRIZE.** A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the Sophomore Class who has done the best writing for Barnard Bulletin.

**FRESHMAN ENGLISH PRIZE.** \$35. Awarded to that freshman who, in the opinion of the Freshman English Committee, does the best piece of writing in connection with the work of the course.

**THE JENNY A. GERARD MEDAL.** The Jenny A. Gerard Gold Medal, given in 1908, by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student writing the best essay on Colonial history.

**GERMAN PRIZE FUND.** \$7,000. Established in 1950. Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date.

**HERRMAN BOTANICAL PRIZE FUND.** \$1,000. Established in 1892 by the late Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany.

**THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING.** A prize of \$500 open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

**AMY LOVEMAN MEMORIAL FUND.** \$7,970. Established in 1956 by friends and classmates of the late Amy Loveman. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship.

**THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND.** \$3,000. Established in 1949 by Dr. William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded biennially, on the recommendation of the Department of Philosophy, for the best essay on the significance of what Albert Schweitzer calls "reverence for life" in its bearing upon the neglected ethical problem of the nature and extent of man's duty to animals.

**THE HELEN PRINCE MEMORIAL PRIZE FUND.** \$1,200. Established in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, Class of 1922. Awarded to an undergraduate student for excellence in dramatic composition.

**KATHARINE E. PROVOST MEMORIAL PRIZE FUND.** \$1,000. Established in 1949 in memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her

## BARNARD COLLEGE

death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics.

**CAROLINE GALLUP REED PRIZE FUND.** \$1,000. Established in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion.

**MARIE REIMER SCHOLARSHIP FUND.** \$4,100. Established in 1953 by former students and friends of Professor Emeritus Marie Reimer, for many years head of the Barnard College Department of Chemistry. Awarded at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year.

**SPERANZA ITALIAN PRIZE FUND.** \$1,000. Established in 1911 by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911. Awarded to a student for excellence in Italian.

**JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND.** \$1,250. Established in 1917 by her friends in memory of Jean Willard Tatlock, Class of 1895. Awarded to the undergraduate student most proficient in Latin.

**VON WAHL PRIZE FUND.** \$1,300. Established in 1915 in memory of Constance von Wahl, Class of 1912, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

The following prizes of Columbia University are by their terms open to students of Barnard College:

**BENNETT PRIZE.** A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. The subject for 1956-57 is: "Any topic dealing with the domestic or foreign policy of the United States selected in connection with seminar work in one of the social science departments and approved by the Chairman of the Bennett Prize Committee." For additional information consult Professor Truman.

**THE BUNNER MEDAL.** The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for 1956-57 is: "The hunter and the hunted in Cooper,

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**Melville, Hemingway and Faulkner.**" For additional information consult Professor Everett.

**EARLE PRIZE IN CLASSICS.** A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, partly on the basis of a special examination in sight translation of passages of Greek and Latin, partly on the basis of consistently good work in the regular Greek and Latin courses. Students are urged to do much of their work for the examination during the preceding summer vacation. For further information consult Professor Benedict.

**THE CAROLINE PHELPS STOKES PRIZE.** The Caroline Phelps Stokes Prize of \$40 is awarded at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College, or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. Topics for 1956-57 are as follows: "The Scientist's Problem: Research, the control of its social use, and the attitude of society toward him"; "The Problem of Rights of Man in British and American Security Practices"; "The Utilitarian Attack on the Natural Rights Theory." For additional information consult Professor Hieatt.

**VAN RENSSELAER PRIZE.** To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details, consult Professor Van Doren.

**WOODBERRY PRIZE.** Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. Established by the Woodberry Society as a memorial to the late George Edward Woodberry. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1956-57. Value of prize about \$100. For additional details, consult Professor Nicolson.

The following prize is also open to Barnard students:

**SUSAN HUNTINGTON VERNON PRIZE.** This prize is awarded, on recommendation of the Executive Officer of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley. The value of the prize is about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943.

## X. General Information

### REGISTRATION

Prior to registration incoming students discuss their programs with their Class Adviser. For freshmen individual appointments are made during September, and for transfer students they are planned for the four days preceding the opening of college. Class advisers are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1956-57 the Class Advisers are:

MISS MARIANNA BYRAM	Adviser to the Class of 1960
MISS CLARA ELIOT	Adviser to the Class of 1959
MRS. NATHALIE WOODBURY	Adviser to the Class of 1958
MISS HELEN M. CARLSON	Adviser to the Class of 1957

On Monday and Tuesday, September 24 and 25, the freshmen meet together for the first time. The University campus is explored and the varied activities of college life are introduced by upperclassmen and officers of the undergraduate groups.

Registration for all students takes place in the James Room, Barnard Hall, as follows:

Monday, September 24	A — L (day students only)
Tuesday, September 25	M — Z (day students only)
Wednesday, September 26	All resident students

A Bursar's receipt, required for identification on campus, will be issued to each student in the gymnasium during the September registration period, and in the Bursar's office during the period from January 21-31, 1957.

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fine of \$15 is charged for failure to register on the dates indicated.

### FILING OF PROGRAMS

After the opening of college a few days' leeway is allowed for program revision. Freshman and sophomore programs must be approved

## GENERAL INFORMATION

by the Class Adviser; those of juniors and seniors by the Major Adviser. In 1956-57 final programs are due on the following days:

Wednesday, October 3	Class of 1957
Thursday, October 4	Classes of 1958 and 1959 (students who were registered at Barnard in 1955-56)
Friday, October 5	Transfers and former students
Monday, October 8	Class of 1960

### CHANGE OF PROGRAM

After a fixed date in each session (winter, October 8, 1956, spring, February 15, 1957) no change of any kind will be allowed except on the written recommendation of an officer of the College and with the approval of the Dean of Studies.

### PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each semester is 12 and the maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or its equivalent in laboratory work, that is, seven hours of class and laboratory work combined. All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements. No credit is allowed for any course elected on an optional or audit basis, even though all work is completed, unless the student changes her registration to a credit basis in the Registrar's office within three weeks of the beginning of the term.

### COLUMBIA UNIVERSITY COURSES

Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified seniors who obtain the approval of the Major Adviser and the Executive Officer of the Barnard department concerned. Seniors with high academic standing may apply for permission to count two graduate courses in the major field toward the Bachelor's degree. Those who wish to register for graduate courses to

## BARNARD COLLEGE

count toward a higher degree must comply with the following conditions:

1. The approval of the Executive Officer of the Barnard department must be obtained.
2. The student must be in the last term of her senior year.
3. She must be within 12 points of the Bachelor's degree.
4. The points for graduate credit must be in addition to those required for the Bachelor's degree.

Columbia College courses not listed in the current announcement may be elected, if the approval of Dean McKnight of Columbia College is procured through the office of the Barnard Registrar.

Courses in the School of General Studies may be credited toward the degree, if passed with a grade not lower than C. Fees for General Studies courses are paid by the student herself over and above the Barnard tuition, unless she obtains both: (1) a written statement from her Major Adviser indicating that the course is an integral part of her major and that no equivalent course is offered by the Barnard department, and (2) the approval of the Committee on Programs and Standing. (See Fees, page 148.)

Teachers College courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses are not included in the regular tuition, but are added to the Barnard bill.

## SUMMER STUDY

Credit is given for summer session courses taken at accredited institutions, if they are approved in advance, and if a minimum grade of C is obtained in each course. Courses of less than six weeks' duration are credited only in exceptional cases. Students whose average standing in the preceding year fell below 2.50 are restricted to six points of work in a six-weeks session and a proportionate number for a longer session. No student with an average less than 2.00 will be authorized to attend summer classes.

Additional credit for high standing (see page 167) is not given for summer work.

Students should not expect to fulfill specific requirements for the degree in summer session, but should limit their choice to electives.

## GENERAL INFORMATION

Applications for summer study should be filed in the Registrar's office on the specified date. Students are asked to have official transcripts of their summer work sent to the Registrar by November 1.

### GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. The quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are an exception.) Quality of work is gauged numerically by a system of credit ratio, which is the ratio of the number of credits received to the number of points elected. A or A— indicates excellent work; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade. Work in the major field of unusual merit is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc) if the instructor has given the student permission in advance to postpone the submission of required work. The grade for this work automatically becomes F, if not completed within three weeks after the end of the semester. Absent (Abs) means absent from the final examination, and Deferred (Def) means that the grade has been deferred because of illness during the examination. NC indicates that the course was audited only and not taken for credit. WD signifies that the student withdrew from the course without formal notification.

Each point with a mark of A = 4 credits; B = 3; C = 2; D = 1; F = 0. For every plus or minus an adjustment of +0.3 or -0.3 is made. The average mark per point is the student's rating, and is computed at the end of each semester.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Grades of D are not counted in the major field, and no credit for D work is allowed for summer session courses.

Additional credit for high standing is given under the following conditions: one point to the student whose average for the semester is 3.50 to 3.69 inclusive, and two points to the student with an average of 3.70 or over, provided that the program includes not less than 12 points, all work for the session is completed, and no grade of Absent, Incomplete, Withdrawn, or Deferred is received.

## BARNARD COLLEGE

At the end of the sophomore year all records are examined. Normally only those students whose cumulative average is 2.00 (C) or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on the Academic Standing of Students.

### EXAMINATIONS

Examinations are scheduled at the end of each semester. For the academic year 1956-57 they will be held on January 21-31 inclusive and May 20-30 inclusive.

Deficiency examinations, given September 24-26, 1956, are open only to those students whose work is satisfactory and who were unavoidably absent from the regular series. They may be taken either in the autumn immediately following the prescribed period, or in the second autumn thereafter. Otherwise, credit for the course is forfeited. A fee of \$5, payable in advance, is charged for each deficiency examination.

A senior who for imperative reasons has missed an examination may apply for a special examination. For each one there is a fee of \$10, payable in advance.

### CLASSIFICATION OF STUDENTS

Students are classified as follows:

**Freshmen:** those who have completed fewer than 24 points of academic work

**Sophomores:** those who have completed 24 points

**Juniors:** those who have completed 54 points

**Seniors:** those who have completed 86 points

**Unclassified:** those who have not yet been assigned definite credit on transfer

**Non-matriculated:** those who are not candidates for the degree.

No matriculated student may change her status to that of non-matriculated student.

### DEAN'S LIST

A Dean's List is compiled at the end of each academic year which contains the names of students who deserve special mention for superior scholarship. Announcement of the list is made the following October.

## GENERAL INFORMATION

### PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible.

### DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February.

The Faculty confers honors upon students who complete work for the degree with distinction (cum laude), with high distinction (magna cum laude) and with highest distinction (summa cum laude). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

### ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

### ABSENCES

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with possible detriment to their academic standing.

The attendance of freshmen and students who are on probation is subjected to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the overall total of semester points without regard to grades in course.

All absences due to illness must be reported on forms available in the office of the College Physician. Illness is considered an excuse for excessive absence, only if the student's statement is filed immediately upon her return to college.

## BARNARD COLLEGE

Students who are prevented by conscientious scruples from complying with academic requirements on days set apart by their church for religious observance should make application to their religious counselor for an equitable solution, and file a statement from him in the Registrar's office.

## RESIDENCE

There are three dormitories which provide residence facilities for nearly 400 Barnard undergraduates. They are Brooks and Hewitt Halls on the Barnard campus, with accommodations for 355 students, and Johnson Hall, the women's residence hall on the Columbia campus, with accommodations for 40 Barnard upperclassmen. The majority of the rooms in all three dormitories are singles.

The dormitories are under the supervision of the Director of Residence. The Executive Committee of the Residence Halls helps to decide matters relative to student welfare and conduct, and assist in administering the work program.

Further information concerning the residence halls is available in the Residence Halls Handbook sent to all dormitory students on admission to Barnard.

Since Barnard has residence space available for only one-third of the student body, and since the aim of the overall housing policy is to have as many resident students as possible from different parts of the world, it is impossible to assign rooms to those who are able to commute to the college, or who are carrying a program of less than eleven points. Ordinarily all students not residing with their parents or husbands are required to live in Brooks, Hewitt or Johnson Halls, unless they receive special permission to live off-campus. Approval of their living arrangements must be obtained each year from the Director of College Activities. Applications for permission should be made before September 15 or January 15. Registration will not be completed until off-campus residence approval has been obtained. Any change of residence at any time during the college year must be approved by the Director of College Activities.

Students will not be given permission to live off-campus unless they meet one of the following requirements: twenty-one years of age or older at the time the application is made; living with close relatives or adults residing in an approved apartment; living in supervised residences; or holding live-in jobs. Upper classmen may live in approved women's hotels.

## GENERAL INFORMATION

The penalty for violation of these regulations is suspension from college for a term, or expulsion.

### ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

### WITHDRAWAL

A student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the office of the Registrar. A student under twenty-one years of age must furnish written assent of a parent or guardian. (See Refunds, page 147.)

# XI. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of more than ten thousand members living in all states of the Union as well as in sixty foreign countries. The Associate Alumnae serve the College in three important ways, by interpreting Barnard to the community, by recruiting able girls for the student body, and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs situated in leading cities and the Alumnae Council with its nationwide membership make it possible to find spokesmen for Barnard at distances far from New York. High school students considering Barnard may find it helpful to talk personally with the Barnard representatives living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

## OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. FREDERICK WOODBRIDGE (Catherine Baldwin '27), President

MRS. EDWARD PELZ (Caroline Duncombe '40), 1st Vice-President

MRS. WILLIAM D. GETTEL (Mary Dickinson '34), 2nd Vice-President

MRS. ROBERTSON WARNER (Marion Mettler '25), Treasurer

MRS. DONALD READ (Dorothy Kramm '32), Secretary

MISS MARY A. BLISS '25, Executive Secretary

## DIRECTORS

MRS. RAY ALLEN

(Mary Kenny '14)

MRS. HERBERT ANDERSON

(Alice Newman '22)

MRS. TOWNSEND CANN

(Adelaide Bruns '32)

MRS. F. BASIL COLEMAN

(Marguerite McCloskey '28)

MRS. MYRON EISENSTEIN

(Ruth Richards '28)

MRS. JOHN HAVERSTICK

(Iola Stetson '46)

MRS. HOMER JOY

(Mary Bowne '30)

MRS. RANDALL P. MCINTYRE

(Helen J. Pond '48)

MISS ROSE PATTON '29

MRS. DAVID ROMIG

(Victoria Thompson '50)

MRS. MARK VAN DOREN

(Dorothy Graffe '18)

## ASSOCIATE ALUMNAE

### ALUMNAE TRUSTEES

MISS DOROTHY R. FUNCK '29

MRS. WALTER WEST

(Helen Crosby '13)

MRS. WILLIAM GOSSETT

(Elizabeth Hughes '29)

MRS. FREDERICK WOODBRIDGE

(Catherine Baldwin '27)

### PRESIDENTS OF ALUMNAE CLUBS

#### CALIFORNIA

Los Angeles County — MISS HENRIETTA SWOPE '25, 660 North Madison Avenue, Pasadena 4

San Francisco Bay Area — MRS. J. R. MELBOSTAD (Gloria Wyeth '52), 83 Central Avenue, Sausalito

#### CONNECTICUT

Fairfield County — MRS. DAVID A. SCHIRMER (Regina Hill '42), Ponus Ridge Road, New Canaan

Hartford County — MISS LOIS CAMPAINNE '51, 81 Dover Road, West Hartford

New Haven — MRS. JOSEPH FRUTON (Sofia Simmonds '38), 2 Livingston Street, New Haven 11

#### DELAWARE

Wilmington — MRS. LAWRENCE AUSPOS (Doris Charlton '44), 404 Cleveland Avenue

#### DISTRICT OF COLUMBIA

Washington — MRS. KARL GOLDBERG (Beatrice Laskowitz '50), 3801 Connecticut Avenue, Washington 8

#### ILLINOIS

Chicago — MRS. HERBERT L. BERMAN (Elaine Wiener '50), 5550 Dorchester Avenue, Chicago 37

#### MARYLAND

Baltimore — MRS. FREDERICK SOBEL (Joan Borowik '47), 1120 Ramblewood Road, Baltimore 12

#### MASSACHUSETTS

Boston — MISS JOAN S. NORTON '48, 55 Beverly Road, Wellesley

## BARNARD COLLEGE

### MICHIGAN

Detroit — MRS. WILLIAM GOSSETT (Elizabeth Hughes '29), Goodhue Road, Bloomfield Hills

### NEW JERSEY

Bergen County — MRS. HENRY T. UPDEGROVE, JR. (Grace Reining '30), 1076 Sussex Road, West Englewood

North Central — MRS. HAROLD OSBORNE (Dorothy Brockway '19), 379 Highland Avenue, Upper Montclair

### NEW YORK

Brooklyn — MISS NORA ROBELL '48, 2518 Avenue I, Brooklyn 10

Long Island — MRS. MALCOLM BOLNICK (Arline Newfield '49), 101 Glen Keith Road, Glen Cove

New York — MRS. LEWIS GOLDENHEIM (Ruth Saberski '35), 430 West 24th Street, New York 11

Tri-City Group (Troy, Albany, Schenectady) — MRS. JULIUS SHERMAN (Bessie Bergner '29), 17 Marwill Street, Albany

Westchester — MRS. MARTIN E. POLINGER (Ruth Tischler '37) Garth Woods Apartments, Scarsdale

Western New York — MRS. JOHN P. HAMILTON (Harriet Kennedy '38), 101 Cadman Drive, Williamsville 21

### OHIO

Cleveland — MRS. FRED P. STASHOWER (Hildegarde Darmstadter '24), 1837 Wilton Road, Cleveland 18

### PENNSYLVANIA

Philadelphia — MRS. CHARLES STEHLE (Katharine Browne '25), Rydal

Pittsburgh — MRS. MILTON MALE (Maxine Rothschild '31), 210 Conover Road, Pittsburgh 8

### TEXAS

Dallas — DR. MARY JENNINGS '21, 3224 Caruth, Dallas 5

Houston — MRS. MELVIN FINCKE (Elizabeth Jervis '32), 910 Sul Ross

### WASHINGTON

State-of-Washington — MRS. WARREN FOOTE (Will Eva Gray '48), 7108 42nd Street, S.W., Seattle 6

ASSOCIATE ALUMNAE

REGIONAL COUNCILLORS

MRS. HERBERT W. ANDERSON  
(Alice Newman '22)  
Winding Brook Farm  
Prospectville, Pennsylvania

MRS. JAMES S. COLES  
(Martha Reed '37)  
85 Federal Street  
Brunswick, Maine

MISS MARGARET DEVECCHI '51  
277 Park Avenue  
New York 17, N. Y.

MRS. WILLIAM L. DUFFY  
(Ellen O'Gorman '08)  
245 East 72nd Street  
New York 21, N. Y.

MRS. CHARLES HEMING  
(Lucile Wolf '19)  
63 DeSabla Road  
San Mateo, California

MISS MARGARET JANE FISCHER '35  
Zaleski  
Ohio

MRS. ALFRED LOOMIS  
(Priscilla Lockwood '13)  
17 East 84th Street  
New York 28, N. Y.

MRS. JOSEPH D. McGOLDRICK  
(Helen Cahalane '34)  
Solebury, Pennsylvania

## XII. Statistics

	1889 to 1890	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1952 to 1953	1953 to 1954	1954 to 1955	1955 to 1956
<b>UNDERGRADUATES, REGULAR:</b>																
Seniors	40	83	62	*123	87	*126	227	*181	*164	*208	*260	213	232	*238	245	1948-49
Juniors	40	71	122	110	190	259	237	220	191	314	277	320	333	238	240	1 in Medicine
Sophomores	37	75	109	191	193	234	247	226	210	314	272	287	223	323	340	1949-50
Freshmen (regular)	4	54	110	188	240	224	271	311	267	324	246	271	215	238	317	2 in Law
Freshmen (partly regular)	10	...	...	...	...	...	...	...	...	...	...	...	...	294	304	2 in Medicine
Unclassified students	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3 in Law
<b>SPECIAL STUDENTS:</b>																
Matriculated	21	27	24	32	39	33	28	29	31	21	15	8	14	25	22	2 in Law
Nonmatriculated	...	...	30	32	22	22	28	28	29	21	15	8	14	25	20	2 in Medicine
Departmental (1889-1896)	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Music students (1896-1904, 1914-1915)	41	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...
...	22	62	27	54	69	61	33	28	29	31	21	15	8	14	25	22
<b>GRADUATE STUDENTS (1890-1900):</b>																
...	82	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD:</b>																
STUDENTS FROM COLUMBIA UNIVERSITY	36	315	366	535	733	755	980	1104	1026	985	1237	1112	1066	1046	1074	1154
STUDENTS FROM TEACHERS COLLEGE.	...	...	18	77	62	59	28	80	153	234	163	92	77	94	62	72
<b>TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY</b>	...	...	18	139	259	136	118	203	296	184	112	89	98	96	72	67
<b>TOTAL REGISTRATION</b>	36	333	505	794	869	873	1183	1400	1210	1097	1326	1210	1162	1109	1146	1221
<b>DEGREES CONFERRED:</b>																
A.B.	39	83	88	141	139	198	247	221	206	303	257	267	285	266	258	259
B.S. (1909-1918)	...	18	2	8	5	...	...	...	...	...	...	...	...	...	...	...
A.M. (1898-1900)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1924-25																

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1956: A.B., 10,870, B.S., 77.

• The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1926-27	2 in Medicine	1939-40	1 in Business
1914-15	3 in Education	1927-28	1 in Architecture	1940-43	1 in Law
1916-17	1 in Journalism	1 in Business	1943-44	1 in Law	
1921-22	1 in Journalism	2 in Journalism	1944-45	1 in Law	
1922-23	1 in Journalism	1 in Architecture	1946-47	1 in Law	
1923-24	2 in Journalism	3 in Journalism	1947-48	2 in Medicine	
	1 in Medicine	1 in Medicine		1 in Medicine	1 in Law
	1 in Medicine	1 in Medicine		1 in Medicine	1 in Law

### XIII. Examination Groups

Courses are arranged in examination groups in order to avoid conflicts on the examination schedule. These groups are indicated by Arabic boldface numerals in brackets immediately following the class hours. Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group (except Group **0**) *without making special arrangements through the Registrar's office.*

#### **Group [1]** M W F 9

Anthropology 1, 2  
Chemistry 41, 42 (M W F 9, M 3)  
Economics 17, 18  
English 53, 54  
French 17-18; 27, 28  
Government 11; 12  
History 11, 12  
Italian 21, 22  
Mathematics 1  
Religion 25, 26  
Zoology 1-2; 1a-2a; 129

French 21, 22  
Geography 3, 4  
German 7, 8  
Government 1, 2 (II)  
Greek 21; 22  
History 15, 16  
Music 3; 31-32 (I)  
Philosophy 1 or R1 (II)  
Philosophy 8; 43  
Physics 3-4; 3a-4a  
Psychology 9; 26  
Sociology 31; 32  
Spanish 25-26  
Zoology 152; 152a

#### **Group [2]** M W F 10

Botany 5, 6  
Chemistry 150  
Economics 19, 20  
English 69; 70  
Fine Arts 63; 70  
French R4; R5x; R5  
French 9, 10; 23; 24  
Geology 1, 2; 1a, 2a  
German 5, 6  
Government 1, 2 (I); 31, 32  
Greek 11; 12  
History 27-28  
Italian 3, 4; 19; 20  
Mathematics R1; 33 or R33  
Philosophy 1 or R1 (I); 61-62  
Psychology 27; 28; 57  
Zoology 15

#### **Group [4]** M W F 1

Chemistry 145  
Economics 7-8; 29  
English 62  
Fine Arts 77; 78  
French 13; 14  
Geology 19; 28W  
Government 1, 2 (III)  
Government 9; 10; 18  
Latin 11; 12  
Mathematics R32; 54  
Music 31-32 (II)  
Philosophy 5; 6; 22  
Psychology 16; 37  
Sociology 33; 34  
Spanish 27-28

#### **Group [3]** M W F 11

Chemistry 105, 106  
Economics 15; 24  
English 63; 66; 75; 78  
Fine Arts 91, 92

#### **Group [5]** M W F 2

Botany 7; 8; 9-10  
English 79, 80  
Fine Arts 51, 52  
Geography 12; 15  
Greek 1-2

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History 35, 36  
Latin 3; 4  
Music 15 (M W 2:10–3:25)  
Music 16 (M W 2:10–3:25)  
Philosophy 1 or R1 (III)  
Philosophy 41; 84  
Sociology 35; 38

## Group [6] T Th 9

Botany 1–2; 1a–2a  
Economics 3; 4  
Foundations of Language Learning  
French 11–12; 29; 30  
German 35  
Government 25, 26 (T Th 9:10–10:25)  
Latin 27 (T Th 9:10–10:25)  
Latin 28 (T Th 9:10–10:25)  
Philosophy 1 or R1 (IV)  
(T Th 9:10–10:25)  
Philosophy 76 (T Th 9:10–10:25)  
Psychology 24  
Sociology 21–22 (T Th 9:10–10:25)  
Zoology 3; 27; 122

## Group [7] T Th 10

Economics 28 (T Th 10:35–11:50)  
Fine Arts 75, 76 (T Th 10:35–11:50)  
French 25, 26  
Geography 1, 2 (T Th 10:35–11:50)  
Government 1, 2 (IV)  
(T Th 10:35–11:50)  
Government 7 (T Th 10:35–11:50)  
History 38 (T Th 10:35–11:50)  
Hygiene  
Italian 13 (T Th 10:35–11:50)  
Italian 14 (T Th 10:35–11:50)  
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Philosophy 9 (T Th 10:35–11:50)  
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English 71, 72  
English 73, 74 (T Th 11, T 3:35–4:25)  
Fine Arts 1–2  
Mathematics 31–32 (M 3, T Th 11)  
Psychology 21; 25

Spanish 23–24  
Zoology 13; 14

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Anthropology R18 (T Th 2:10–3:25)  
Botany 151; 152  
Economics 27 (T 2, Th 2–4)  
Economics 32 (T 2, Th 2–4)  
English 83 (T Th 2:10–3:25)  
English 86 (T Th 2:10–3:25)  
Fine Arts 65; 66  
German 27; 28  
Government 1, 2 (V)  
(T Th 2:10–3:25)  
Government 16 (T Th 2:10–3:25)  
History 25, 26 (T Th 2:10–3:25)  
Music 1–2 (T Th 2:10–3:25)  
Music 14 (T 2, Th 1–3)  
Philosophy 72 (T Th 2:10–3:25)  
Philosophy 81, 82  
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Religion 4  
Sociology 43, 44 (T 2–4)  
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Drama Workshop 1–2 (M W F 2–6)  
Education 1–2 (M W 3:10–4:25)  
English 82 (M 3, W 3–5)  
Fine Arts 43  
History 7, 8  
Recreational Leadership 1 or R1  
Sociology 40

## Group [11]

Psychology 1 or R1 (Sections)  
Psychology 7–8 (Sections)  
Psychology 41–42

## Group [12]

English 41, 42 (Sections)  
Mathematics 7–8 (Sections)  
Mathematics 30 or R30; R31

## Group [13]

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Geography R17  
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Religion 83, 84

### Group [14]

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French 3, 4 (Sections)  
French 5x, 6x (Sections)  
French 7, 8 (Sections)  
French 126

### Group [15]

French 15-16  
German 1-2 (Sections)  
German 3, 4 (Sections)

### Group [16]

History 1-2 (Sections)  
History 3-4 (Sections)

### Group [17]

Italian 1-2 (Sections)  
Spanish 1-2 (Sections)  
Spanish 3, 4 (Sections)  
Spanish 3a; 4a  
Spanish 15-16 (Sections)  
Spanish 15a-16a

### Group [18]

Economics 1-2 (Sections)

### Group [19]

Chemistry 1-2; 1a-2a  
Chemistry 23 (M W F 12)  
Chemistry 24 (M W 12)  
Chemistry 26 (M W F 12)  
Sociology 1-2 (Sections)

## Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Civilization 1, 2; 3, 4  
Anthropology 51, 52  
Botany 161, 162  
Chemistry 64; 99; 107; 108; 137, 138  
Economics 51, 52; 61, 62; 63, 64  
Education 1a-2a  
English A1-A2; D1, D2  
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English 23, 24; 27, 28  
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Geology 60  
German 01-02; 9, 10  
Government 45, 46; 61, 62  
Greek 19-20; 29-30  
History 81, 82; 83, 84  
History 85, 86; 87, 88  
Italian 5, 6

Latin 19-20; 29-30  
Music 39-40; 41-42  
Philosophy 63, 64; 65-66  
Psychology 47; 48  
Religion 35, 36; 85, 86  
Sociology 87-88; 97, 98  
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Spanish 9-10; 11-12  
Spanish 29, 30; 31-32  
Zoology 61, 62  
Zoology 72; 130

Courses for which examinations may be arranged later:

Botany 159  
Government 27  
Italian 7, 8  
Religion: Consult Registrar's bulletin board for special schedule

## XIV. College Calendar

Sept. 15 Saturday. Final payments due, Winter Session.

Sept. 24 Monday, through Sept. 26, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.

Sept. 24 Monday. Foreign language tests.

Sept. 24 Monday, through Sept. 26, Wednesday. Deficiency examinations.

Sept. 27 Thursday. Winter Session, sixty-eighth year begins. Classes begin, 9 a.m. Convocation, 1 p.m.

Nov. 6 Tuesday. Election Day. Holiday.

Nov. 20 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.

Nov. 22 Thursday, through Nov. 25, Sunday. Thanksgiving holidays.

Dec. 5 Wednesday. Vocational Conference.

Dec. 24 Monday, through Jan. 6, 1957, Sunday. Christmas holidays. Residence halls closed.

Jan. 20 Sunday. Annual Commemoration Service in St. Paul's Chapel.

Jan. 15 Tuesday. Final payments due, Spring Session.

Jan. 21 Monday. Mid-year examinations begin.

Jan. 31 Thursday. Last day for obtaining Bursar's receipt for Spring Session.

Feb. 4 Monday and Feb. 5, Tuesday. Registration for students entering in February. The privilege of later registration may be granted on payment of a fee of \$15.

Feb. 6 Wednesday. Spring Session begins. Classes begin, 9 a.m.

Feb. 22 Friday. Washington's Birthday. Holiday.

March 1 Friday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.

April 14 Sunday, through April 21, Sunday. Easter holidays.

May 20 Monday. Final examinations begin.

May 30 Thursday. Memorial Day. A university holiday except for scheduled examinations.

June 2 Sunday. Baccalaureate Service.

June 4 Tuesday. Conferring of degrees.

July 4 Thursday. Independence Day. Holiday.

July 8 Monday. Fifty-eighth Summer Session of Columbia University begins.

Aug. 16 Friday. Fifty-eighth Summer Session ends.

Sept. 16 Monday. Final payments due, Winter Session.

Sept. 23 Monday through Sept. 25, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.

Sept. 26 Thursday. Winter Session, sixty-ninth year begins. Classes begin 9 a.m. Convocation, 1 p.m.

**SEPTEMBER, 1956**

S	M	T	W	T	F	S
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2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

# CALENDAR FOR 1956-1957

**OCTOBER, 1956**

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14	15	16	17	18	19	20
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28	29	30	31			

**FEBRUARY, 1957**

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**JUNE, 1957**

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**NOVEMBER, 1956**

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**MARCH, 1957**

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24	25	26	27	28	29	30
31						

**JULY, 1957**

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21	22	23	24	25	26	27
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**DECEMBER, 1956**

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30	31					

**APRIL, 1957**

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28	29	30				

**AUGUST, 1957**

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14	15	16	17	18	19	20
21	22	23	24	25	26	27
25	26	27	28	29	30	31

**JANUARY, 1957**

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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

**MAY, 1957**

S	M	T	W	T	F	S
	1	2	3	4	5	6
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**SEPTEMBER, 1957**

S	M	T	W	T	F	S
	1	2	3	4	5	6
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
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# BEQUEST FORM

## *General*

I,....., give and bequeath to Barnard College in the City of New York the sum of.....for the uses and purposes of the said Corporation.

## *Endowment*

I,....., give and bequeath to Barnard College in the City of New York the sum of.....to be added to the General Endowment of the said Corporation.

## *For a Specific Purpose*

I,....., give and bequeath to Barnard College in the City of New York the sum of.....to be used for the purposes of.....

.....  
to be known as the.....Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

*NOTES*

*NOTES*

## *NOTES*







